



Public Works Department
Transportation Department

Boston

2010

Boston Utility Construction Kickoff Meeting - Including a presentations from the AAB and Massachusetts Commission for the Blind

Mayor Thomas M. Menino, City of Boston

Joanne Massaro, Commissioner of Public Works

Michael Kineavy, Chief of Policy, Mayor's Office

Thomas Tinlin, Commissioner of Transportation

Steven Spinetto, Commissioner for the Office of Persons with Disabilities

Jay Walsh, Director of Neighborhood Services

Robert Giers, Principal Civil Engineer BPWD

Meg Robertson, Director of Commission for the Blind

Thomas Hopkins, Chairman of Mass. Architectural Access Board

Mark Dempsey, Compliance Officer for Mass. Architectural Access Board

John DeBenedictis, Director of Engineering BTB

Ed Hesford, Supervising Traffic Engineer BTB

Mark Cardarelli, Chief Highway Construction Inspector BPWD

Friday, March 26th, 2010

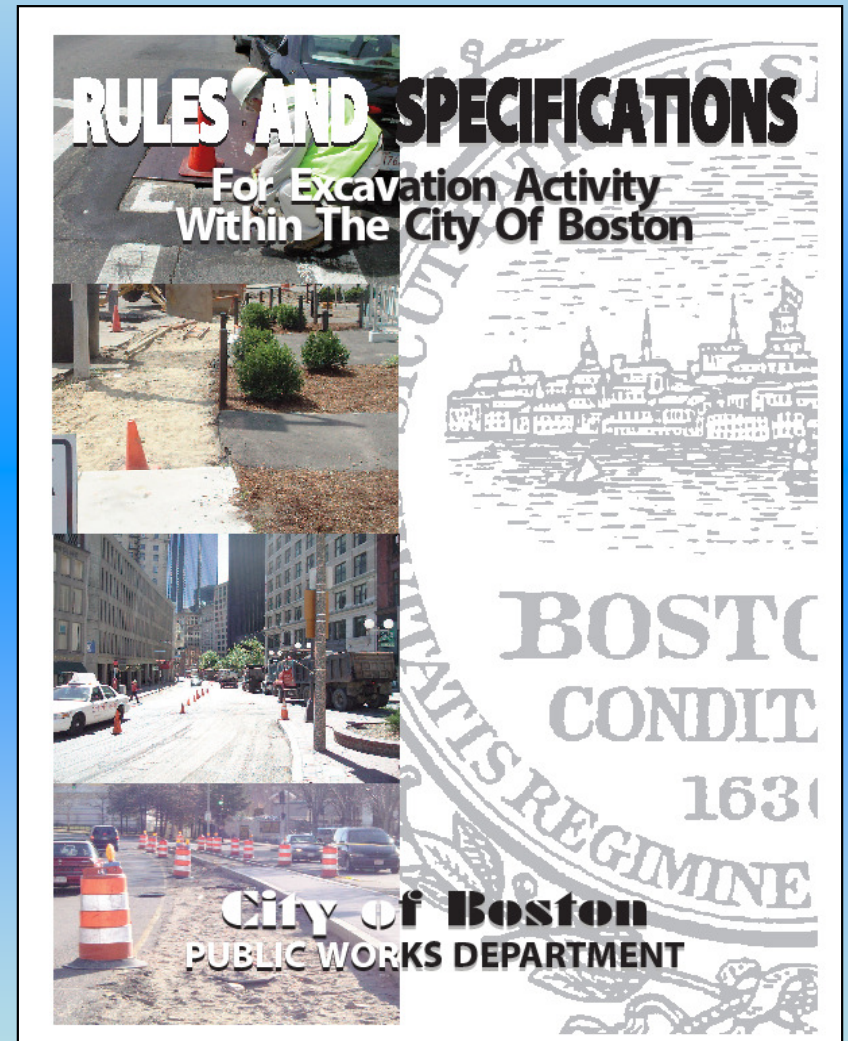
Boston City Hall, Room 801



CIU construction inspection unit

City Rules & Specifications

- Rules and Specifications:
Updated February 10, 2009
 - Available online
CityofBoston.gov,
Public Works Department
- Created with input from
utilities & various agencies
- Updated regularly



Welcome Boston Utilities & Contractors



- Dependable utility service is crucial to the quality of life and the growth of the Boston Economy.
- Repairs & upgrades are a fact of life.
- Roadway layout & Subsurface conditions complicate work.

**Utility Construction is
a Demanding &
Difficult Job!**



Why We Have This Meeting

- The City acknowledges the busy schedules associated with construction.
- You chose this profession.
- Your work impacts both the residents of Boston and the City's infrastructure.
- With this profession comes responsibilities and expectations.
- There is a need to meet before the start of every construction season. Reinforcement is a "Good Thing"
- Attending this meeting ensures that you will fully understand the City's Rules and Specifications, as well as the expectations the City has for everyone during construction.
- After leaving today's meeting it is **unacceptable** to later state that you did not understand or "**were not aware**" of the City's Rules and Specifications.

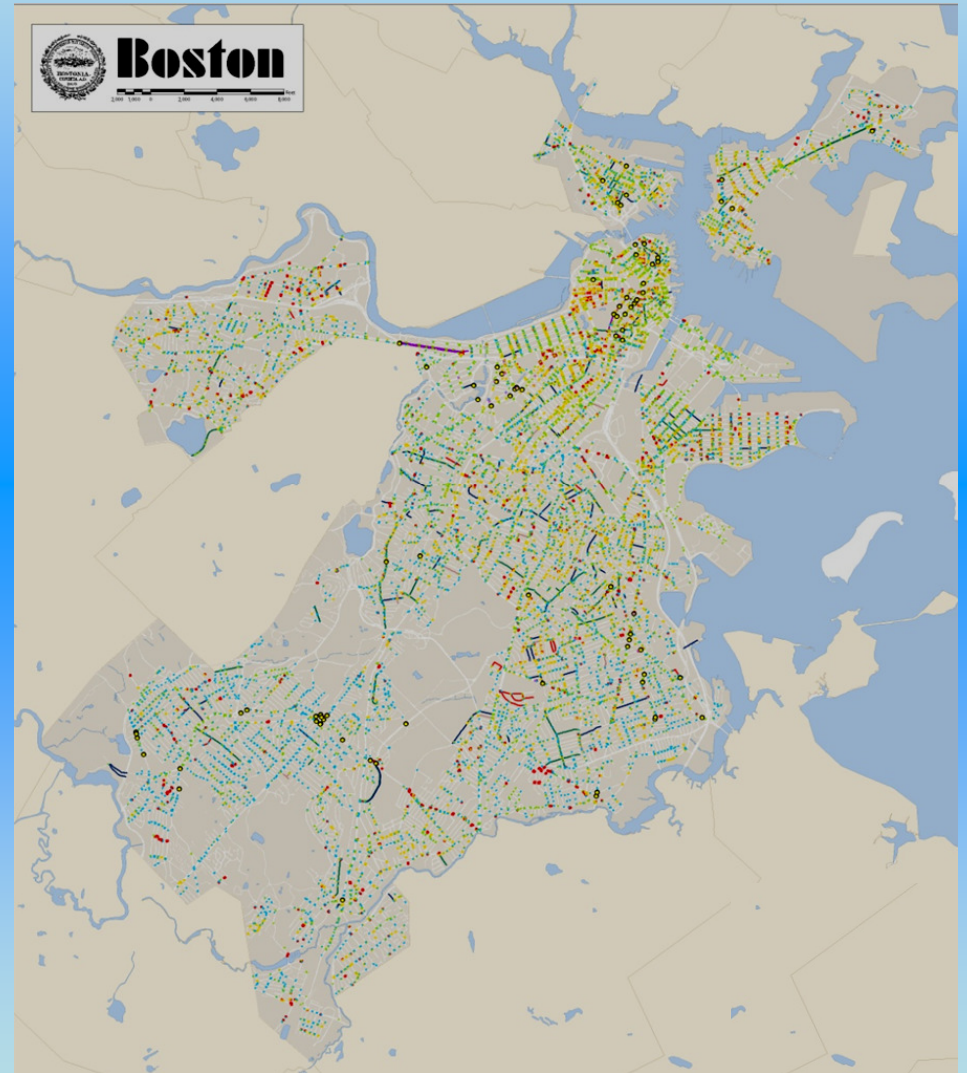
Boston Utility Worksites

During the 2009 Construction Season there were an average of **143** active worksites and **260** plates daily.

- Excavating
- Sidewalks
- Pipe/Conduit Installation
- Backfilling
- Plating
- Paving

Between 2006 and 2009, approximately **6000** permits were issued annually.

- (Permit activation average not including extensions)



Reasons for Street Opening Cuts

1. Age of Utility Infrastructure
2. Geography
3. Changing Population (New Services and Upgrades)
4. Technological Advancement

Age of Infrastructure

- Boston is home to some of the oldest infrastructure in America.
- Some Infrastructure was placed as long ago as the 1880's
- Some of the materials used to build the infrastructure is no longer considered "acceptable" by today's standards.
 - Lead Services, Cast Iron Mains, Split Fiber Mains, etc.

Geographic Location

- Cold weather can cause frost heaves and other adverse conditions which directly affect the quality of infrastructure buried under Boston's streets and sidewalks.
- Freezing temperatures cause havoc on Utility Infrastructure.
- Boston was part of a large expanse of swampland and estuaries that were later filled in with various materials in order to provide more area for development.
- Sub-surface soils vary as a result of landfill materials used since the 1770's – organics, clays, etc.

Population Density / New Service

- Boston is densely populated with new businesses moving into the City each year.
 - Commercial buildings have higher energy demands, which require upgrades in service.
 - New building owners often require installation of utility service connections.
 - Utility upgrades for existing homes and businesses are frequent, and lend evidence that the City of Boston is a thriving, vibrant, growing community.

Technological Advancement Upgrades

- As technological innovation improves, the utility infrastructure needs to match the progression.
 - Fiber-optics replace traditional wire systems.
 - Cell service installations to accommodate the increasing demand for phone signal strength.
- These advancements require a tremendous amount infrastructure replacement, resulting in numerous excavations throughout the City.

What Does it all Mean?

- These four independent factors lead to constant and continuous street excavation work throughout the City of Boston.
 - **The bottom line is that the City of Boston is one of the busiest cities in the United States when it comes to utility service and repair work.**

Coordination is a Must!!

- The constant construction can be extremely frustrating to City officials who are responsible for planning, resurfacing, and reconstruction projects in the City.
 - The ability to maintain capital street improvement programs is severely compromised by the frequency of utility construction.
 - The City's pavement structure is weakened with every utility excavation.

Since 2007 there have been over **23,000** permits activated.

City of Boston and Utility Capital Improvement

- City: Capital Programs
- Utility Companies: Upgrades and Service
- Private Contractors: Residential/Business
 - Utility and Construction work occurs all throughout Boston
 - The City wants to pave the streets that are in need of repair.
 - PWD needs to be sure that the streets paved aren't cut into for at least 5 years.

Coordination: Continued

- **One of Mayor Menino's goals for his new term is to eliminate utility cuts into Guaranteed Streets altogether.**
- When a recently paved street becomes littered with utility cuts, it gives the appearance of apathy to the general public regarding coordination. This is obviously unacceptable to the Public Works Department.
- **Digging into new streets will not be tolerated!!!**

Truly Cleared?

- The goal of the Public Works Department is to improve coordination to the point where each newly paved streets lives to the full extent of its intended lifespan without becoming plagued by utility construction cuts which jeopardize the infrastructure of the City roadways.
 - Resurfaced streets should remain undisturbed for at least 5 years
 - Reconstructed streets should remain undisturbed for at least 10 years
- City recommends identification of trouble mains/conduits for full replacement before any City resurfacing project takes place.

A Need to Improve Coordination Technique

- Prior to July 2009, all clearance requests for the City were sent to each utility company via email.
 - Proposed candidates for resurfacing or reconstruction were submitted on spreadsheets to each utility who then cross-referenced the City's proposed limits with their own work programs.
 - Clearance was a tedious and difficult task.
 - Each correspondence depended upon the utility presenting an accurate assessment of the City's proposed limits, as well as upon the City correctly interpreting the utility's response
 - **The clearance system led to the opportunity for human error.**

City of Boston Utility Coordination Software (COBUCS)

- In order to more easily facilitate the coordination process, the Public Works Department proposed the creation of an online program that would allow the PWD, Utility companies and Private contractors to “**Reserve**” their planned work.
 - Developed by Paul Taylor and Managed by Mark Cardarelli of the Public Works Department, COBUCS is capable of instantly checking utility programs with the Guaranteed Street List and proposed City projects.
 - The COBUCS program automatically updates, is free to use, and is available on any computer with internet capability.
 - (Firefox Web Browser is the preferred system for using COBUCS)

COBUCS: Uses

- Utilities must enter all of their proposed work into COBUCS
 - It is the City's expectation that all utilities, at a minimum, enter their two-year capital plans for work.
 - COBUCS checks all entered work against Guaranteed Street List to determine if the entered data lies on, or intersects, a Guaranteed Street.
 - COBUCS checks all entered work against all City programs in order to determine if the entered data lies on, or intersects, a street proposed for a City of Boston resurfacing or reconstruction program.

COBUCS Address: [<http://140.241.251.251:81/cobucs/login.html>]

Closing the Loophole of the Clearance Process

- Prior to the COBUCS program, private contractors and building developers were not previously incorporated in the utility clearance process.
 - Because these entities were not included, there were many street cuts being made after resurfacing was completed.
 - To close this loophole, all private contractors and developers are now mandated to use the COBUCS program.
 - No permits will be issued to any entity unless their proposed work has been entered into the COBUCS program.

Navigation of COBUCS

Utility Companies / City Agencies

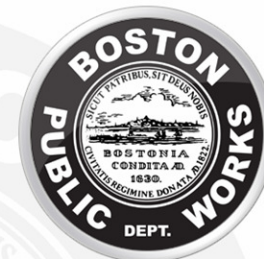


City Of Boston Utility Coordination Software

COBUCS



Private Contractors / Developers



City Of Boston Utility Coordination Software

COBUCS



Using COBUCS / Capital Plans

Absolutely NO PERMITS shall be issued by the Boston Public Works Permit Branch until that Permittee's proposed work has been entered into the COBUCS program.

The proposed **start date** (also called the "Reserve Date") must always be on the day you become **aware of the project!**

The PWD recommends that you extend your proposed **completion date** to the end of the Construction Season, regardless of your actual planned completion date.

This allows the City to coordinate with you more efficiently.

Using COBUCS / Capital Plans Continued

- On COBUCS entries where the “Reserve Date” has expired but the Project has not yet been completed, your company must be delete and re-enter the location with a new proposed completion date.
- COBUCS Users must update entries regularly!
- Failure to update COBUCS may result in denial of new PWD permit applications.
- You must not remove completed entries from COBUCS.
- The Public Works Department is working on a system of archiving Completed work from your entry table.

City of Boston CAPITAL PLAN

<div> + Add Segment - Delete Segment Progress: <input type="text"/> PVD: <input type="text"/> Completed: <input type="text"/> Ref: <input type="text"/> <input type="button" value="Submit"/> <input type="button" value="Refresh Data"/> </div>												
	Street	From	Lo	To	Hi	Type	Begin	End	Progress	PVD	Complete	Reference
	ACADEMY RD	COLUMBUS AV SE	STA	ACADEMY CT	24	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		07/13/2009	ARP
	ADAMS ST DO S	GALLIVAN BLVD	STA	BUTLER ST N	112	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		07/25/2009	ARP
	ANSEL RD	BLUE HILL AV NB	STA	ASHTON ST	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		08/20/2009	ARP
	ASHTON ST	BALSAM ST	40	FRONTENAC ST	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		08/20/2009	ARP
	AVONDALE ST	RICHMOND ST DO	STA	ST GREGORY ST	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		09/30/2009	ARP
	BAGNAL ST	ALDIE ST	STA	HOLTON ST	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		07/30/2009	ARP
	BARBARA ST	CENTRE ST WR JP	STA	SOUTH HUNTINGT	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		08/05/2009	ARP
	BAYSWATER ST	ST ANDREW RD	29	ST EDWARD RD	74	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		08/05/2009	ARP
	BEECHCROFT ST	WASHINGTON ST	STA	FANEUIL ST	END	Asphalt Resurfacir	04/01/2009	11/15/2009	Completed		07/30/2009	ARP
	BELFORT ST	DORCHESTER AV	STA	AUCKLAND ST	30	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		09/02/2009	ARP
	BLAKE ST	BIRCHCROFT RD	40	GREENFIELD RD	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		07/29/2009	ARP
	BRAYTON RD	KENRICK ST	STA	MARGO RD	53	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		07/15/2009	ARP
	BROOKS ST BR	NORTH BEACON S	STA	NEWTON ST	48	Asphalt Resurfacir	05/01/2009	05/31/2009	Completed		07/30/2009	ARP
	BUTLER ST S	DEAD END	STA	VENTURA ST	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed			ARP
	CHARLES ST DO	FREEMAN ST	28	DITSON ST	38	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		09/02/2009	ARP
	CHISWICK RD	CHESTNUT HILL A	149	DEAD END	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		07/23/2009	ARP
	CHISWICK TR	PORTINA RD	STA	CHISWICK RD	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		07/23/2009	ARP
	COLBERG AV	BEECH ST	110	W ROXBURY SURI	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		07/14/2009	ARP
	COLUMBUS AV N	STUART ST	100	CLARENDON ST	250	Asphalt Resurfacir	10/02/2009	12/31/2009	Completed		10/13/2009	ARP
	COTTAGE ST EB	GOVE ST E	149	PORTER ST EB W	END	Asphalt Resurfacir	06/09/2009	12/31/2009	Completed		08/05/2009	ARP
	CRANE ST	BRADLEE ST HP	STA	DEAD END	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		07/29/2009	ARP
	DARLINGTON ST	NORFOLK ST DO	STA	SOUTHERN AV	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		08/20/2009	ARP
	DIMOCK ST	WASHINGTON ST	STA	COLUMBUS AV SE	49	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		07/13/2009	ARP
	DONCASTER ST	METROPOLITAN A	STA	DALE ST HP	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		07/28/2009	ARP
	EAST LENOX ST	HARRISON AV	55	FELLOWS ST	END	Asphalt Resurfacir	06/15/2009	12/31/2009	Completed		08/21/2009	ARP
	EDGEWATER DR	RIVER ST HP	STA	TOPALIAN ST	51	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		08/03/2009	ARP
	FAIRBANKS ST	WASHINGTON ST	STA	FANEUIL ST	END	Asphalt Resurfacir	05/01/2009	11/15/2009	Completed		07/15/2009	ARP
	FELLOWS ST	NORTHAMPTON S	STA	CONNOLLY ST	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		08/21/2009	ARP
	FLORIDA ST	KING ST DO	STA	LONSDALE ST	39	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		09/21/2009	ARP
	FOTTLER RD	HAZLETON ST	STA	WALK HILL ST	11	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		08/14/2009	ARP
	FRANKLIN TER	WARREN AV HP	STA	DEAD END	END	Asphalt Resurfacir	05/01/2009	12/31/2009	Completed		08/03/2009	ARP

COBUCS Conflicts

- On Guaranteed Street Conflicts, your company must contact the PWD Permit Branch at 617-635-4909
- On Proposed Resurfacing/Reconstruction Street Conflicts, your company must immediately contact and coordinate with Mark Cardarelli by emailing him at mark.cardarelli@cityofboston.gov or calling him at 617-635-4951.

COBUCS Reports

- COBUCS offers three reports to be reviewed to better aid your company.
 - The Guaranteed Street List
 - City of Boston's Capital Plans
 - Your Company's Capital Plans
 - To view a report, select the Reports icon on the COBUCS starting menu

COBUCS Reports: Capital Plan

Address  http://140.241.251.251:81/cobucs/reports.html



 Go

Links

National Grid REPORTS



GUARANTEED STREET LIST



CAPITAL PLAN:

National Grid

City Repair



Clearance Sign-Off

- The City of Boston will be experiencing a tremendous increase in the number of streets being resurfaced in the 2010 Construction Season.
 - ARRA
 - PWD Programs (Resurfacing/Reconstruction)
 - MassDoT Programs (Reconstruction)
- All streets that will be resurfaced or reconstructed in 2010 will have been officially cleared and signed off on by the 22 major utility companies and City agencies.
- Every private contractor outside of the major 22 who performs roadway excavation work in the City of Boston has had access to all proposed streets, and the opportunity to contact the City for possible deferment.

The Bottom Line...

- The City's expectations are that all streets to be resurfaced or reconstructed in the City of Boston in 2010 are free of any future utility planned or repair work for a minimum of 5 years.
- Your company was given every opportunity to defer City program streets throughout the clearance process.
- The penalty of digging into a new street will be severe. It will range from, at a minimum, a curb to curb overlay fee, to the possibility of denial of a work permit for that street.

Utility Construction



Inventory

- Before the start of the Construction season you must check all your equipment to be sure they are in working order. None of us want to have your work stopped suddenly due to equipment breakdown.
- Signage
 - All Permittees must have ALL appropriate signage for utility construction work. Lack of proper signage will result in immediate shutdown.
 - All signage must have lettering that is clearly visible. Damaged signs should be replaced. At no time should a sign be ineligible to the public.
- Delineation of work site
 - Cones, tape, barrels, etc.

PWD's Responsibility

During Utility Construction, the PWD strives to do two things:

- 1- Minimize the inconvenience to the Public.
- 2- Protect and Preserve the City's Infrastructure

Permitee's Responsibility

The Safety and Quality of Boston's right-of-ways cannot be sacrificed!

Follow BTD approved Traffic Management Plans & work hours.

Adhere to Public Works Rules & Specifications at all points during construction.

Committed to Superior Construction

CIU construction inspection unit

A specialized unit created by Mayor Menino in 2003 to increase oversight personnel to combat poor workmanship.

Mayor Menino Demands Perfection!

BWSC CSO initiative

- Electrical infrastructure upgrade
- Telecommunication
- Growth in Boston real estate markets
- Angle of Influence work
- **OLD INFRASTRUCTURE**
- CIU Assists regular BPWD workforce
- Marked improvement since creation in Fall 2003

Changing expectation of construction in Boston

 *Education & Inspection*

 *Documentation*

 *Evaluation*

 *Enforcement*

Standardized Inspection

- Standardized 15 item report
- Items based on City Rules & Specifications
- “Snapshot” of your job
- Database stores & evaluates all inspection data

CITY of BOSTON - PUBLIC WORKS DEPT HIGHWAY DIVISION UTILITY STREET OPENING REPAIR INSPECTORS REPORT		Size of Cut on Permit	
PERMIT #:	Permittee:	Roadway or Sidewalk?	
Address:	Contractor:	Patch / Trench or Patch / Trench	
Street:	Foreman:	Phone:	Travel Time Included
Neighborhood:	Time From:	To:	Total Hours:
Date:	Weather/Temp:		
Day of the week:	Month:	Year:	
1. Current Permit Present? <small>Is permit current? Call in logged? Proper signage?</small>	n/a YES NO	Notes	Violation <input type="checkbox"/>
2. Abiding to Permit Restrictions? <small>Two way traffic? Police Detail? Work Hours? Stoolpiling?</small>	n/a YES NO		<input type="checkbox"/>
3. Safe Work Zone? <small>Shoring? Guarded work zone? Ex. cones? Barricade? Tape? Etc...</small>	n/a YES NO		<input type="checkbox"/>
4. Suitable Reused Gravel Material? <small>Was the material tested prior to use?</small>	n/a YES NO		<input type="checkbox"/>
5. Suitable New Gravel Material? <small>Tested material? Gradation test on file?</small>	n/a YES NO		<input type="checkbox"/>
6. Compacted in 8" Maximum Lifts? <small># of lifts, lift thickness, type of equipment used, # of passes?</small>	n/a YES NO		<input type="checkbox"/>
7. Controlled Density Fill (CDF)? <small>Preparation of CDF?</small>	n/a YES NO		<input type="checkbox"/>
8. Opening Secured? <small>Steel Plates Reversed or Barmed; Cold patch (MMA); NO gravel</small>	n/a YES NO		<input type="checkbox"/>
9. Edges Straight and Vertical? <small>Out Squared? Use Tap-Coat ONLY AT END OF JOB.</small>	n/a YES NO		<input type="checkbox"/>
10. Two 1-1/2" Lifts of Hot Mix Asphalt? <small>2" total thickness, parallel to road surface, MUST WITNESS</small>	n/a YES NO		<input type="checkbox"/>
11. Roadway Satisfactorily Complete? <small>Ongoing, Acceptable, Not Acceptable, Is it smooth and level?</small>	n/a YES NO		<input type="checkbox"/> 90 DAY INSPECTION <input type="checkbox"/>
12. Temp Sidewalk Complete? <small>Ongoing, Acceptable, Not Acceptable, Two 1 1/2" lifts of MMA?</small>	n/a YES NO		<input type="checkbox"/>
13. Permanent Sidewalk Complete? <small>Ongoing, Acceptable, Not Acceptable, Brashed, Topped, and Level?</small>	n/a YES NO		<input type="checkbox"/>
14. Loop Detectors / Crosswalks? <small>What is the condition? Damaged? Intersection?</small>	n/a YES NO		<input type="checkbox"/>
15. Public Safety Issue? <small>Definitive hazard? Describe.</small>	YES NO		<input type="checkbox"/>
Violation Delivered? YES NO	Photo? YES NO	SHUTDOWN <input type="checkbox"/>	
Utility Rep. Contacted? YES NO	Name:	Phone Number:	Date:
Comments: Size of actual cut?			
Inspected by: Signature: Date: / /			
<small>I hereby certify the notes on this report are true to statements noted</small>			


Boston's Street Opening Management System

Build an Inspection Database to Store and Evaluate Inspection Data

- ✓ Tracking Permittee & Violations
- ✓ Develop Report Card for Contractors
- ✓ Report Card Helps Educate and Enforce Rule & Specs
- ✓ Benefiting Utilities

Ensure a "Top-Down" Support Structure

- ✓ Starts with Mayor Menino and Commissioner Massaro of the Public Works Department
- ✓ City Annual Report

 construction inspection unit

Noncompliance Rating Summary

KeySpan

Of Site Visits = 1250

7/1/2008 to 7/31/2008

Inspection Item	# OF INSPECTIONS	# OF VIOLATIONS	Period Company RATING	Period City Wide RATING	Year-To-Date Company RATING	Year-To-Date City Wide RATING
1. Create Permit Present? Required current? Call-in tagged? Proper Signage?	489	9	1.84%	1.34%	0.79%	0.84%
2. Adherence to Permit Restrictions? Two-way traffic? Photos taken? Work Hours? Backfilling?	482	3	0.62%	0.55%	0.18%	0.39%
3. Safe Work Zone? Warning? Guarded work area? Six cones, barrels, signs, etc.	476	0	0.00%	0.00%	0.04%	0.16%
4. Suitable Re-used Gravel Material? Was the material tested prior to use?	0	0	NO INSP	0.00%	0.00%	0.00%
5. Suitable New Gravel Material? Tested material? Gravel test on site?	142	0	0.00%	0.00%	0.00%	0.07%
6. Compacted 1/2" Maximum Lumps? Did Lumps 1/2" or greater? Type of equipment used? Did test?	150	0	0.00%	0.29%	0.00%	0.07%
7. Controlled Disposal Fill (CDF)? Proper Use of CDF?	0	0	NO INSP	0.00%		0.00%
8. Opening Sealed? Seal: Proper? Sealed to Standard? Seal Material: Two 1/2" Thick?	609	4	0.66%	1.11%	1.35%	1.15%
9. Edges: Chalked and Vented? Chalk: Proper? (Flow: 1/2" Thick) ONLY AT 1/2" OR LESS	187	0	0.00%	0.29%	0.00%	0.09%
10. Two 1-1/2" Lumps of Hot Mix Asphalt? If two lumps, seal with road sealant, 60/70	77	0	0.00%	0.00%	0.00%	0.00%
11. Roadway Satisfactorily Complete? Grading: Acceptable? Not Acceptable: Is a condition or issue?	194	10	5.15%	5.68%	1.74%	1.88%
12. Trench Side Walk Complete?	0	0	0.00%	0.00%	0.00%	0.35%
1	0	0	0.00%	3.45%	0.00%	1.16%
2	0	0	NO INSP		0.00%	0.00%
3	0	0	0.00%	0.00%	0.00%	0.00%
4	0	0	0.00%	0.00%	0.00%	0.00%
5	0	0	0.00%	0.00%	0.00%	0.00%
6	0	0	0.00%	0.00%	0.00%	0.00%
7	0	0	0.00%	0.00%	0.00%	0.00%
8	0	0	0.00%	0.00%	0.00%	0.00%
9	0	0	0.00%	0.00%	0.00%	0.00%
10	0	0	0.00%	0.00%	0.00%	0.00%
11	0	0	0.00%	0.00%	0.00%	0.00%
12	0	0	0.00%	0.00%	0.00%	0.00%
13	0	0	0.00%	0.00%	0.00%	0.00%
14	0	0	0.00%	0.00%	0.00%	0.00%
15	0	0	0.00%	0.00%	0.00%	0.00%
16	0	0	0.00%	0.00%	0.00%	0.00%
17	0	0	0.00%	0.00%	0.00%	0.00%
18	0	0	0.00%	0.00%	0.00%	0.00%
19	0	0	0.00%	0.00%	0.00%	0.00%
20	0	0	0.00%	0.00%	0.00%	0.00%
21	0	0	0.00%	0.00%	0.00%	0.00%
22	0	0	0.00%	0.00%	0.00%	0.00%
23	0	0	0.00%	0.00%	0.00%	0.00%
24	0	0	0.00%	0.00%	0.00%	0.00%
25	0	0	0.00%	0.00%	0.00%	0.00%
26	0	0	0.00%	0.00%	0.00%	0.00%
27	0	0	0.00%	0.00%	0.00%	0.00%
28	0	0	0.00%	0.00%	0.00%	0.00%
29	0	0	0.00%	0.00%	0.00%	0.00%
30	0	0	0.00%	0.00%	0.00%	0.00%
31	0	0	0.00%	0.00%	0.00%	0.00%
32	0	0	0.00%	0.00%	0.00%	0.00%
33	0	0	0.00%	0.00%	0.00%	0.00%
34	0	0	0.00%	0.00%	0.00%	0.00%
35	0	0	0.00%	0.00%	0.00%	0.00%
36	0	0	0.00%	0.00%	0.00%	0.00%
37	0	0	0.00%	0.00%	0.00%	0.00%
38	0	0	0.00%	0.00%	0.00%	0.00%
39	0	0	0.00%	0.00%	0.00%	0.00%
40	0	0	0.00%	0.00%	0.00%	0.00%
41	0	0	0.00%	0.00%	0.00%	0.00%
42	0	0	0.00%	0.00%	0.00%	0.00%
43	0	0	0.00%	0.00%	0.00%	0.00%
44	0	0	0.00%	0.00%	0.00%	0.00%
45	0	0	0.00%	0.00%	0.00%	0.00%
46	0	0	0.00%	0.00%	0.00%	0.00%
47	0	0	0.00%	0.00%	0.00%	0.00%
48	0	0	0.00%	0.00%	0.00%	0.00%
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80	0	0	0.00%	0.00%	0.00%	0.00%
81	0	0	0.00%	0.00%	0.00%	0.00%
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90	0	0	0.00%	0.00%	0.00%	0.00%
91	0	0	0.00%	0.00%	0.00%	0.00%
92	0	0	0.00%	0.00%	0.00%	0.00%
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172	0	0	0.00%	0.00%	0.00%	0.00%
173	0	0	0.00%	0.00%	0.00%	0.00%
174	0	0	0.00%	0.00%	0.00%	0.00%
175	0	0	0.00%	0.00%	0.00%	0.00%
176	0	0				

“It’s Construction”...?

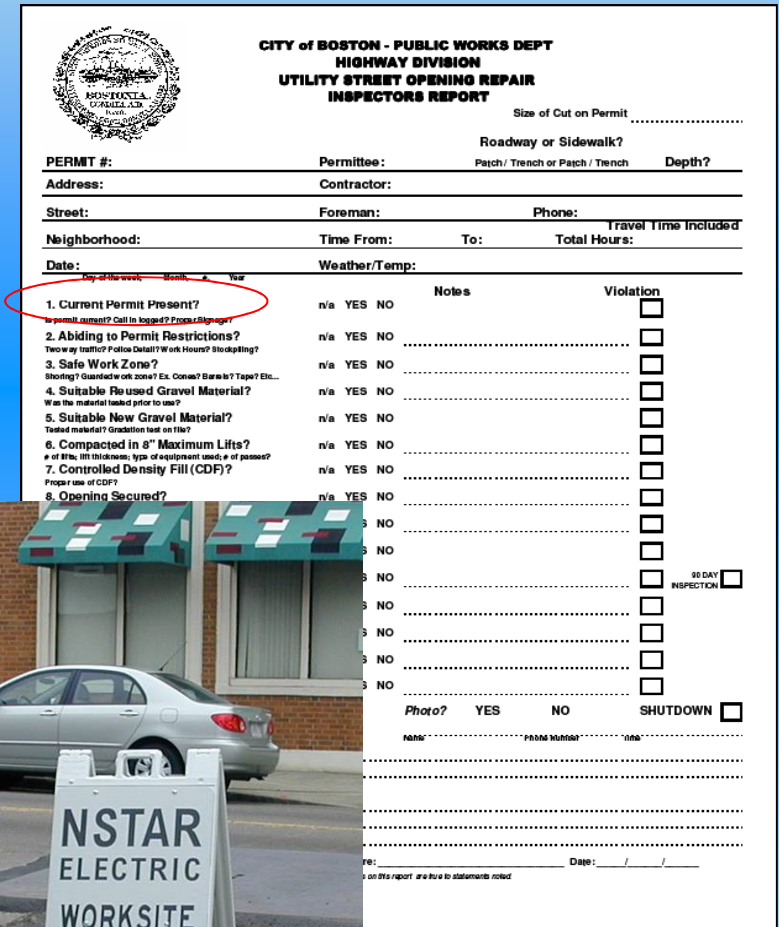
The City acknowledges that construction is difficult and complicated.

Construction is a chain-of-command.
Breakdowns in communication can happen.

However, the CIU will not accept blatant disregard, cutting corners, indifference, or apathy as an excuse for not following the Rules and Specification and state: “It’s Construction”.

Item 1 – Permitting & Job Start

- Current Permit on jobsite at all times (planned work)
- Jackie's Law Permit on Job Site at all times.
- Call placed to City Hall at least 24hrs prior to:
(emergencies within 1 hour)
 - Start
 - Backfill
 - Pave
 - Completion
- Signage
 - ID signs
 - Job site must be identifiable



**CITY of BOSTON - PUBLIC WORKS DEPT
HIGHWAY DIVISION
UTILITY STREET OPENING REPAIR
INSPECTORS REPORT**

Size of Cut on Permit: _____
Roadway or Sidewalk? _____
Patch/ Trench or Patch/ Trench _____ Depth? _____

PERMIT #: _____ Permittee: _____ Contractor: _____
Address: _____ Foreman: _____ Phone: _____
Street: _____ Neighborhood: _____ Time From: _____ To: _____ Travel Time Included: _____
Date: _____ Weather/Temp: _____ Total Hours: _____

Day of the week: _____ Month: _____ Year: _____

	Notes	Violation
1. Current Permit Present? <small>Is permit current? Call to log? Proper signage?</small>	n/a YES NO	<input type="checkbox"/>
2. Abiding to Permit Restrictions? <small>Two way traffic? Police Detail? Work Hours? Stopping?</small>	n/a YES NO	<input type="checkbox"/>
3. Safe Work Zone? <small>Shoring? Guardrail work zone? Etc. Cones? Barrels? Tape? Etc.</small>	n/a YES NO	<input type="checkbox"/>
4. Suitable Re used Gravel Material? <small>Was the material tested prior to use?</small>	n/a YES NO	<input type="checkbox"/>
5. Suitable New Gravel Material? <small>Tested material? Gradation test on file?</small>	n/a YES NO	<input type="checkbox"/>
6. Compacted in 8" Maximum Lifts? <small># of lifts, lift thickness, type of equipment used, # of passes?</small>	n/a YES NO	<input type="checkbox"/>
7. Controlled Density Fill (CDF)? <small>Proper use of CDF?</small>	n/a YES NO	<input type="checkbox"/>
8. Opening Secured?	n/a YES NO	<input type="checkbox"/>

Photo? YES NO SHUTDOWN ☐

Name: _____ Phone Number: _____ Date: _____

on this report, and a true statement noted



Emergency Permits

- Purchased in blocks from PWD permit office
- To be used in Emergency situations only
- Emergency situations must be called in within (1) one hour of commencement of work.
- Must apply for PWD permit after 24hrs of work
- Delaying of PWD permit request unacceptable
- Delay of job requires reason in writing

Item 2 – BTD Requirements

- BTD Approval Form must be on job site at all time.
- BTD approved traffic management plan on jobsite at all times (MUTCD signs)
- Traffic flow
- Police Detail
- Work Hours
- Stockpiling only where approved

CITY of BOSTON - PUBLIC WORKS DEPT HIGHWAY DIVISION UTILITY STREET OPENING REPAIR INSPECTORS REPORT	
Size of Cut on Permit: _____	
Roadway or Sidewalk? _____	
PERMIT #:	Permittee: _____
Address:	Contractor: _____
Street:	Foreman: _____ Phone: _____
Neighborhood:	Time From: _____ To: _____ Travel Time Included: _____
Date: _____	Weather/Temp: _____
Day of the week: _____ Month: _____ A. _____ Year: _____	
Notes	
Violation	
1. Current Permit Present?	n/a YES NO <input type="checkbox"/>
2. Abiding to Permit Restrictions?	n/a YES NO <input type="checkbox"/>
3. Safe Work Zone?	n/a YES NO <input type="checkbox"/>
4. Suitable Re used Gravel Material?	n/a YES NO <input type="checkbox"/>
5. Suitable New Gravel Material?	n/a YES NO <input type="checkbox"/>
6. Compacted in 8" Maximum Lifts?	n/a YES NO <input type="checkbox"/>
7. Controlled Density Fill (CDF)?	n/a YES NO <input type="checkbox"/>
8. Opening Secured?	n/a YES NO <input type="checkbox"/>
9. Edges Straight and Vertical?	n/a YES NO <input type="checkbox"/>
10. Two 1-1/2" Lifts of Hot Mix Asphalt?	n/a YES NO <input type="checkbox"/>
11. Roadway Satisfactorily Complete?	n/a YES NO <input type="checkbox"/>
12. Temp Sidewalk Complete?	n/a YES NO <input type="checkbox"/>
13. Permanent Sidewalk Complete?	n/a YES NO <input type="checkbox"/>
14. Loop Detectors / Crosswalks?	n/a YES NO <input type="checkbox"/>
15. Public Safety Issue?	YES NO <input type="checkbox"/>
Violation Delivered? YES NO	Photo? YES NO
Utility Rep. Contacted? YES NO	SHUTDOWN <input type="checkbox"/>
Comments: _____	
Inspected by: _____ Signature: _____ Date: _____	



Item 3 – Condition of Work Zone

- OSHA requirements maintained at all times.
- Jackie's Law applicable on unattended trench excavations.
- Safe & Guarded Work Zone
- Cones, signs, plastic drums etc..
- Shoring (where required)

Safe, clean & well defined Jobsite!

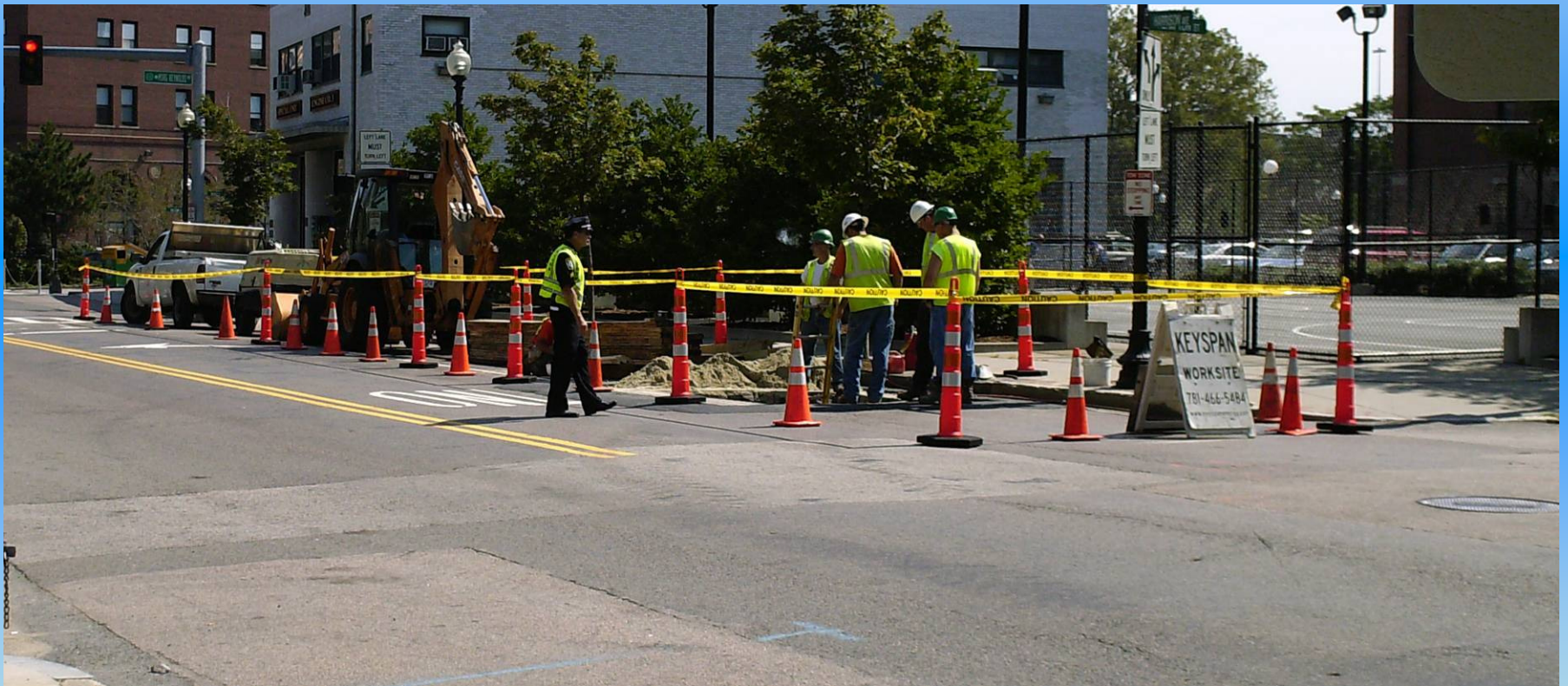


CITY of BOSTON - PUBLIC WORKS DEPT HIGHWAY DIVISION UTILITY STREET OPENING REPAIR INSPECTORS REPORT	
Size of Cut on Permit _____	
Roadway or Sidewalk? Patch / Trench or Patch / Trench	
PERMIT #:	Permittee:
Contractor:	
Address:	Foreman:
Street:	Phone:
Neighborhood:	Time From: To: Travel Time Included Total Hours:
Date:	Weather/Temp:
Day of the week, Month, #, Year	
1. Current Permit Present? Is permit current? Call to log? Proper Storage?	n/a YES NO
2. Abiding to Permit Restrictions? Two-way traffic? Police Detail? Work Hours? Shoring?	n/a YES NO
3. Safe Work Zone? Shoring? Guarded work zone? Ex. Cones? Barrels? Lights? Etc...	n/a YES NO
4. Suitable Reused Gravel Material? Was the material tested prior to use?	n/a YES NO
5. Suitable New Gravel Material? Tested material? Gradation test on file?	n/a YES NO
6. Compacted in 8" Maximum Lifts? # of lifts, lift thickness, type of equipment used, # of passes?	n/a YES NO
7. Controlled Density Fill (CDF)? Proper use of CDF?	n/a YES NO
8. Opening Secured? Steel Plates Replaced or Barred; Cold patch (40mm); HD gravel	n/a YES NO
9. Edges Straight and Vertical? Cut Required? Use Two-Cut? ONLY AT END OF JOB.	n/a YES NO
10. Two 1-1/2" Lifts of Hot Mix Asphalt? 2" total thickness, parallel to road surface, MUST WITNESS	n/a YES NO
11. Roadway Satisfactorily Complete? Ongoing Acceptable, Not Acceptable, Is it smooth and level?	n/a YES NO
12. Temp Sidewalk Complete?	n/a YES NO
Notes	
Violation	
90 DAY INSPECTION	
SHUTDOWN	
Photo? YES NO	
Name: Phone Number: Date:	
Signature: Date:	
Notes on this report are true to statements noted	

Item 3 – Condition of Work Zone Con't

- Boston is a densely populated City requiring proper protection to all those that encounter an excavation.
- The Permittee must surround the excavation with cones, barrels etc.
- The cones and barrels must be taped or roped to protect the pedestrians, workers and vehicles passing through the work zone.
- There will be no exceptions and violations for noncompliance will be issued and the job will be shut down.

Properly Protected Work Zone



Item 3 – Foreman Check List

- Before excavation begins the Foreman must have performed the following:
 - Checked to be sure the current permit is valid and on site.
 - Made sure that all required signage has been placed properly.
 - Verified that all BTD traffic regulations are being upheld, allowing traffic flow (cones, barrels, tape, etc).
 - Excavation area has been secured and cordoned off.

Only after each of the above requirements has been established can the work take place.

Items 4 & 5 - Backfill Material

- (MHD M1.03.1) , “Process Gravel for Sub-base” Required
- Re-used and Recycled excavated material requires laboratory test results signed by a professional engineer that the backfill material conforms to MHD M1.03.1
- Annual submission of current testing (sieve analysis & proctor)
- Random onsite & source verification testing

CITY of BOSTON - PUBLIC WORKS DEPT HIGHWAY DIVISION UTILITY STREET OPENING REPAIR INSPECTORS REPORT		Size of Cut on Permit
PERMIT #:	Permittee:	Roadway or Sidewalk?
Address:	Contractor:	Patch / Trench or Patch / Trench
Street:	Foreman:	Depth?
Neighborhood:	Time From:	Phone:
Date:	To:	Travel Time Included
Day of the week, Month, A, Year	Weather/Temp:	Total Hours:
1. Current Permit Present?	n/a YES NO	Notes
Is permit current? Call is logged? Proper Signage?		Violation
2. Abiding to Permit Restrictions?	n/a YES NO	
Time of Day? F. Office Detail? Work Hours? etc.		
3. Safe Work Zone?	n/a YES NO	
Shoring? Guardrail off zone? Ex. Cones? Barrels? Tape? Etc.		
4. Suitable Re-used Gravel Material?	n/a YES NO	
Was the material tested prior to use?		
5. Suitable New Gravel Material?	n/a YES NO	
Tested material? Gradation test on file?		
6. Compacted in 8" Maximum Lifts?	n/a YES NO	
# of lifts, lift thickness, type of equipment used, # of passes?		
7. Controlled Density Fill (CDF)?	n/a YES NO	
Proper use of CDF?		
8. Opening Secured?	n/a YES NO	
Steel Plates Replaced or Banned? Cold patch (4000); HD gravel		
9. Edges Straight and Vertical?	n/a YES NO	
Out Sloped? Use Tack Coat? ONE YAT END OF JOB.		
10. Two 1-1/2" Lifts of Hot Mix Asphalt?	n/a YES NO	
3" total thickness, parallel to road surface, MUST WITHNESS		
11. Roadway Satisfactorily Complete?	n/a YES NO	
Ongoing, Acceptable, Not Acceptable, Is it smooth and level?		
12. Temp Sidewalk Complete?	n/a YES NO	
Ongoing, Acceptable, Not Acceptable, Two 1 1/2" lifts of RMA?		
13. Permanent Sidewalk Complete?	n/a YES NO	
Ongoing, Acceptable, Not Acceptable, Smoothed, Trowled, and Level?		
14. Loop Detectors / Crosswalks?	n/a YES NO	
What is the condition? Damaged? Intersection?		
15. Public Safety Issue?	YES NO	
Definitive hazard? Describe.		
Violation Delivered? YES NO	Photo? YES NO	SHUTDOWN
Utility Rep. Contacted? YES NO	Name: PHONE NUMBER: TIME:	
Comments: Size of actual cut?		
Inspected by:	Signature:	Date: / /
I hereby certify the notes on this report are true to statements noted		

Not Acceptable!!



Acceptable.



Item 6 – Compaction

Critical step in street opening restoration

- Standard - 8" lifts sufficient for standard equipment (jumping-jack).
- Control-strip required for equipment capable of greater compaction depth.
- Crowded trench can prohibit standard compaction.
- Poor compaction results in unacceptable patches/trenches.
- **Any Permittee's work zone found to be in egregious violation of Item 6 shall be shut down.**

Trust will have been broken!

- Possibility of all active work zones being shut down (Excluding Emergency work)



CITY OF BOSTON - PUBLIC WORKS DEPT HIGHWAY DIVISION UTILITY STREET OPENING REPAIR INSPECTOR'S REPORT	
State of Cut on Permit: _____	
PERMIT #:	Permittee: _____
Address:	Contractor: _____
Street:	Foreman: _____ Phone: _____
Neighborhood:	Time From: _____ To: _____ Travel Time Included: _____
Date:	Weather/Temp: _____
1. Current Permit Present? <input type="checkbox"/> YES <input type="checkbox"/> NO	
2. Abiding to Permit Restrictions? <input type="checkbox"/> YES <input type="checkbox"/> NO	
3. Safe Work Zone? <input type="checkbox"/> YES <input type="checkbox"/> NO	
4. Suitable Replaced Material? <input type="checkbox"/> YES <input type="checkbox"/> NO	
5. Suitable New Gravel Material? <input type="checkbox"/> YES <input type="checkbox"/> NO	
6. Compacted to 8" Maximum Lift? <input type="checkbox"/> YES <input type="checkbox"/> NO	
7. Proper use of GPR? <input type="checkbox"/> YES <input type="checkbox"/> NO	
8. Opening Rectangular? <input type="checkbox"/> YES <input type="checkbox"/> NO	
9. Edges Straight and Vertical? <input type="checkbox"/> YES <input type="checkbox"/> NO	
10. Two 1-1/2" Lifts of Hot Mix Asphalt? <input type="checkbox"/> YES <input type="checkbox"/> NO	
11. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
12. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
13. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
14. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
15. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
16. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
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23. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
24. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
25. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
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30. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
31. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
32. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
33. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
34. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
35. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
36. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
37. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
38. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
39. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
40. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
41. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
42. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
43. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
44. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
45. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
46. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
47. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
48. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
49. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
50. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
51. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
52. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
53. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
54. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
55. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
56. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
57. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
58. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
59. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
60. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
61. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
62. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
63. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
64. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
65. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
66. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
67. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
68. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
69. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
70. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
71. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
72. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
73. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
74. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
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76. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
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78. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
79. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
80. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
81. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
82. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
83. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
84. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
85. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
86. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
87. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
88. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
89. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
90. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
91. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
92. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
93. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
94. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
95. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
96. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
97. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
98. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
99. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	
100. Roadway Surface is not loose, well compacted? <input type="checkbox"/> YES <input type="checkbox"/> NO	





Item 6 – Foreman Check List

- Before backfilling takes place the Foreman must have performed the following:
 - Is the gravel being supplied from an approved source?
 - Reject any material that is frozen, wet, or otherwise visually appearing out of specifications.
 - Even if the gravel is coming from an approved source, if a foreman has what the CIU determines to be unacceptable backfill material, the Foreman is liable.
 - On standard backfill compaction equipment (Jumping-Jacks, plate compactors, etc) the Foreman must perform no more than 8" lifts with at least 5-7 passes each lift.



It might look good at first glance...

However, it is the responsibility of the Foreman to scrutinize the gravel as it's placed to ensure that it meets spec.



Item 7 – Controlled Density Fill

- Flow-Fill to be used only with permission from PWD
- 24" gravel buffer to be provided below pavement structure for drainage
- Min. 24 hr setup

CITY of BOSTON - PUBLIC WORKS DEPT HIGHWAY DIVISION UTILITY STREET OPENING REPAIR INSPECTORS REPORT	
Size of Cut on Permit: _____	
Roadway or Sidewalk? Patch / Trench or Patch / Trench	
PERMIT #:	Permittee: _____
Address:	Contractor: _____
Street:	Foreman: _____ Phone: _____
Neighborhood:	Time From: _____ To: _____ Travel Time Included Total Hours: _____
Date: _____	Weather/Temp: _____
Day of the week: _____ Month: _____ Year: _____	
1. Current Permit Present? Is permit current? Call is logged? Proper Signage?	n/a YES NO <input type="checkbox"/>
2. Abiding to Permit Restrictions? Two-way traffic? Police Detail? Work Hours? Stopping?	n/a YES NO <input type="checkbox"/>
3. Safe Work Zone? Shoring? Guardrail on zone? Ex. Cones? Barrels? Tape? Etc...	n/a YES NO <input type="checkbox"/>
4. Suitable Re-use of Gravel Material? Was the material loaded prior to use?	n/a YES NO <input type="checkbox"/>
5. Suitable New Gravel Material? Tested material? Gradation test on file?	n/a YES NO <input type="checkbox"/>
6. Compacted in 8" Maximum Lifts? # of lifts, lift thickness, type of equipment used, # of passes	n/a YES NO <input type="checkbox"/>
7. Controlled Density Fill (CDF)? Program used CDF?	n/a YES NO <input type="checkbox"/>
8. Opening Secured? Steel Plates Replaced or Banned? Cold patch (4000); NO gravel	n/a YES NO <input type="checkbox"/>
9. Edges Straight and Vertical? Cut Required? Use Tack Coat ONLY AT END OF JOB.	n/a YES NO <input type="checkbox"/>
10. Two 1-1/2" Lifts of Hot Mix Asphalt? 3" total thickness, parallel to road surface, MUST WITHNESS	n/a YES NO <input type="checkbox"/>
11. Roadway Satisfactorily Complete? Ongoing, Acceptable, Not Acceptable, Is it smooth and level?	n/a YES NO <input type="checkbox"/>
12. Temp Sidewalk Complete? Ongoing, Acceptable, Not Acceptable, Two 1 1/2" lifts of RMA?	n/a YES NO <input type="checkbox"/>
13. Permanent Sidewalk Complete? Ongoing, Acceptable, Not Acceptable, Smooth, Tied, and Level?	n/a YES NO <input type="checkbox"/>
14. Loop Detectors / Crosswalks? What is the condition? Damaged? Intersection?	n/a YES NO <input type="checkbox"/>
15. Public Safety Issue? Definitive hazard? Describe.	YES NO <input type="checkbox"/>
Violation Delivered? YES NO	Photo? YES NO <input type="checkbox"/>
Utility Rep. Contacted? YES NO	NAME: _____ PHONE NUMBER: _____
Comments: Size of actual cut? _____	
Inspected by: _____ Signature: _____ Date: _____	
I hereby certify the notes on this report are true to statements noted	

Item 8 – Opening Secured

- City expects all active work sites to be backfilled and paving every day.
- Steel Plates
 - To be used when conditions dictate
 - Manpower and production reasons not valid
 - City must be made aware of plated locations
 - Permittees are responsible for daily monitoring of plated locations.
- Plate installation
 - Recessed (Leveling Course)
 - “Bermed” (24” ramp in path of travel)
 - Minimum 18” over excavation
 - Monitor sidewalls, especially in wet weather
 - Plate must have visible ID and Phone # for emergency contact on both sides.

CITY of BOSTON - PUBLIC WORKS DEPT HIGHWAY DIVISION UTILITY STREET OPENING REPAIR INSPECTORS REPORT		Size of Cut on Permit	
		Roadway or Sidewalk?	
PERMIT #:	Permittee:	Patch / Trench or Patch / Trench	Depth?
Address:		Contractor:	
Street:	Foreman:	Phone:	Travel Time Included
Neighborhood:	Time From:	To:	Total Hours:
Date:	Weather/Temp:		
Day of the week:	Month:	Year:	
1. Current Permit Present?	n/a YES NO	Notes	Violation
Is permit current? Call to log? Proper Signage?			<input type="checkbox"/>
2. Abiding to Permit Restrictions?	n/a YES NO		<input type="checkbox"/>
Two-way traffic? Police Detail? Work Hours? Stockpiling?			
3. Safe Work Zone?	n/a YES NO		<input type="checkbox"/>
Shoring? Guardrail on zone? Ex. Cones? Barrels? Tape? Etc...			
4. Suitable Re-use of Gravel Material?	n/a YES NO		<input type="checkbox"/>
Was the material tested prior to use?			
5. Suitable New Gravel Material?	n/a YES NO		<input type="checkbox"/>
Tested material? Gradation test on file?			
6. Compacted in 8" Maximum Lifts?	n/a YES NO		<input type="checkbox"/>
# of lifts, lift thickness, type of equipment used, # of passes?			
7. Controlled Density Fill (CDF)?	n/a YES NO		<input type="checkbox"/>
Proper use of CDF?			
8. Opening Secured?	n/a YES NO		<input type="checkbox"/>
Steel Plates Recessed or Bermed? Cold patch? Shovel and gravel?			
9. Edges Straight and Vertical?	n/a YES NO		<input type="checkbox"/>
Out Sloped? Use Tack Coat ONLY AT END OF JOB.			
10. Two 1-1/2" Lifts of Hot Mix Asphalt?	n/a YES NO		<input type="checkbox"/>
3" total thickness, parallel to road surface, MUST WITHNESS			
11. Roadway Satisfactorily Complete?	n/a YES NO		<input type="checkbox"/>
Ongoing, Acceptable, Not Acceptable, Is it smooth and level?			
12. Temp Sidewalk Complete?	n/a YES NO		<input type="checkbox"/>
Ongoing, Acceptable, Not Acceptable, Two 1 1/2" lifts of RMA?			
13. Permanent Sidewalk Complete?	n/a YES NO		<input type="checkbox"/>
Ongoing, Acceptable, Not Acceptable, Smooth, Tied, and Level?			
14. Loop Detectors / Crosswalks?	n/a YES NO		<input type="checkbox"/>
What is the condition? Damaged? Intersection?			
15. Public Safety Issue?	YES NO		<input type="checkbox"/>
Definitive hazard? Describe.			
Violation Delivered? YES	NO	Photo? YES NO	SHUTDOWN <input type="checkbox"/>
Utility Rep. Contacted? YES	NO	Name: _____ Phone Number: _____ Date: _____	
Comments: See actual cut?			
Inspected by: _____ Signature: _____ Date: _____			
I hereby certify the notes on this report are true to statements noted			

Item 8 – Opening Secured Cont'd

Coldpatch - Any excavation left to grade in coldpatch asphalt must be monitored and replace within 48 hrs.

Absolutely No openings will be left in gravel!

The City will not tolerate excavations that have not been secured as specified in the Rules and Specifications.

The City will not accept excuses, lack of effort, or a lack of professionalism when it comes to securing job sites in the City of Boston.

Securing the Public's Safety comes before the convenience of doing work.

Not Acceptable!



Acceptable.



Acceptable.



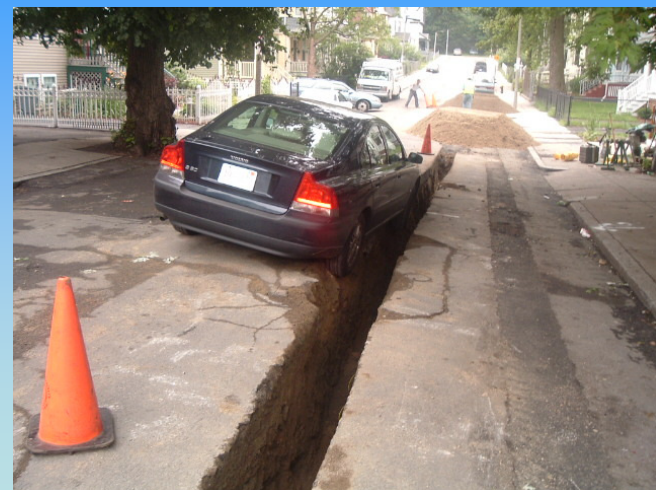
Item 8 – Inactive locations Cont...

Jackie's Law

Jackie's law

- **Applies to unattended open trenches.**
- **Any public safety violation on unattended trenches will be sited under “Jackie's Law” as well as BPWD Rules and Specifications.**
- **Any public safety violation on attended trenches will be a violation of OSHA as well as BPWD Rules and Specifications.**

Any site where the excavation is in excess of 3 feet below grade and the depth of which is, in general, greater than the width, but the width of the trench, as measured at the bottom, is no greater than 15 feet will be subject to “Jackie's Law” and all regulations therein.



Item 8 – Foreman Check List

- Before the Foreman and crew leave the job site at the end of their shift, they must have performed the following:
 - The work zone is swept and clean of debris.
 - All paved areas (cold patch or HMA) are to grade of the existing roadway.
 - No equipment or material is stockpiled without the express permission from the BTB.
 - The sidewalls of the excavation has been inspected for stability and shored where needed before plating.
 - All plates must have the ID name and emergency contact phone number clearly visible.
 - The crew has observed vehicular traffic traveling over the plates to verify that no banging, bouncing, shifting, warping, vibration, etc is taking place.

Item 9 – Edges Straight and Vertical

- All openings must be precut in a neat line using motorized wheel cutting, saw cutting, cold planing, or pneumatic chiseling
- Pavement edges shall be trimmed to a neat vertical face, free of loose materials and neatly aligned with the centerline of the trench.
- The shape of the pavement cut-outs shall be rectangular.
- All irregular shaped cuts or damaged pavement shall be repaired at the expense of the Permittee.

CITY of BOSTON - PUBLIC WORKS DEPT HIGHWAY DIVISION UTILITY STREET OPENING REPAIR INSPECTORS REPORT		Size of Cut on Permit
PERMIT #:	Permittee:	Roadway or Sidewalk?
Address:	Contractor:	Patch / Trench or Patch / Trench
Street:	Foreman:	Phone:
Neighborhood:	Time From:	To:
Date:	Weather/Temp:	Travel Time Included
1. Current Permit Present?	n/a YES NO	Violation
2. Abiding to Permit Restrictions?	n/a YES NO	
3. Safe Work Zone?	n/a YES NO	
4. Suitable Re-use of Gravel Material?	n/a YES NO	
5. Suitable New Gravel Material?	n/a YES NO	
6. Compacted in 8" Maximum Lifts?	n/a YES NO	
7. Controlled Density Fill (CDF)?	n/a YES NO	
8. Opening Secured?	n/a YES NO	
9. Edges Straight and Vertical?	n/a YES NO	
10. Two 1/2" Lifts of Hot-Mix Asphalt?	n/a YES NO	
11. Roadway Satisfactorily Complete?	n/a YES NO	
12. Temp Sidewalk Complete?	n/a YES NO	
13. Permanent Sidewalk Complete?	n/a YES NO	
14. Loop Detectors / Crosswalks?	n/a YES NO	
15. Public Safety Issue?	YES NO	
Violation Delivered?	YES NO	
Utility Rep. Contacted?	YES NO	
Comments:		
Inspected by:	Signature:	Date:

Not Acceptable!!



Acceptable.



Item 10 – (2) 1.5” Lifts of Hot Mix Asphalt

- A tack coat shall be painted to the pavement sidewalls of the entire excavation to prevent water infiltration.
- Asphalt cross section to be applied in two even lifts.
- First lift must consist of 1.5” binder.
- Last lift must consist of 1.5” top.
- Proper compaction equipment must be used.

CITY of BOSTON - PUBLIC WORKS DEPT HIGHWAY DIVISION UTILITY STREET OPENING REPAIR INSPECTORS REPORT		Size of Cut on Permit
PERMIT #:	Permittee:	Roadway or Sidewalk? Patch / Trench or Patch / Trench
Address:	Contractor:	Depth?
Street:	Foreman:	Phone:
Neighborhood:	Time From:	To: Travel Time Included Total Hours:
Date:	Weather/Temp:	
Day of the week: Month: A: Year	Notes	Violation
1. Current Permit Present?	n/a YES NO	<input type="checkbox"/>
Is permit current? Call to log? Proper Signage?	n/a YES NO	<input type="checkbox"/>
2. Abiding to Permit Restrictions?	n/a YES NO	<input type="checkbox"/>
Two-way traffic? Police Detail? Work Hours? Stockpiling?	n/a YES NO	<input type="checkbox"/>
3. Safe Work Zone?	n/a YES NO	<input type="checkbox"/>
Shoring? Guardrails off zone? Ex. Cones? Barrels? Tape? Etc...	n/a YES NO	<input type="checkbox"/>
4. Suitable Re-use of Gravel Material?	n/a YES NO	<input type="checkbox"/>
Was the material tested prior to use?	n/a YES NO	<input type="checkbox"/>
5. Suitable New Gravel Material?	n/a YES NO	<input type="checkbox"/>
Tested material? Gradation test on file?	n/a YES NO	<input type="checkbox"/>
6. Compacted in 8" Maximum Lifts?	n/a YES NO	<input type="checkbox"/>
# of lifts, lift thickness, type of equipment used, # of passes?	n/a YES NO	<input type="checkbox"/>
7. Controlled Density Fill (CDF)?	n/a YES NO	<input type="checkbox"/>
Proper use of CDF?	n/a YES NO	<input type="checkbox"/>
8. Opening Secured?	n/a YES NO	<input type="checkbox"/>
Steel Plates Replaced or Barred? Cold patch (4000); HD gravel	n/a YES NO	<input type="checkbox"/>
9. Edges Straight and Vertical?	n/a YES NO	<input type="checkbox"/>
On Backhoe - see form on back of report	n/a YES NO	<input type="checkbox"/>
10. Two 1-1/2" Lifts of Hot Mix Asphalt?	n/a YES NO	<input type="checkbox"/>
2" total thickness, parallel to road surface, MUST WITHNESS	n/a YES NO	<input type="checkbox"/>
11. Roadway Satisfactorily Complete?	n/a YES NO	<input type="checkbox"/>
Ongoing, Acceptable, Not Acceptable, Is it smooth and level?	n/a YES NO	<input type="checkbox"/>
12. Temp Sidewalk Complete?	n/a YES NO	<input type="checkbox"/>
Ongoing, Acceptable, Not Acceptable, Two 1 1/2" lifts of HMA?	n/a YES NO	<input type="checkbox"/>
13. Permanent Sidewalk Complete?	n/a YES NO	<input type="checkbox"/>
Ongoing, Acceptable, Not Acceptable, Smooth, Tied, and Level?	n/a YES NO	<input type="checkbox"/>
14. Loop Detectors / Crosswalks?	n/a YES NO	<input type="checkbox"/>
What is the condition? Damaged? Intersection?	YES NO	<input type="checkbox"/>
15. Public Safety Issue?	YES NO	<input type="checkbox"/>
Definitive hazard? Describe.	YES NO	<input type="checkbox"/>
Violation Delivered? YES NO	Photo? YES NO	<input type="checkbox"/>
Utility Rep. Contacted? YES NO	Name: PHONE NUMBER: Date:	<input type="checkbox"/>
Comments: See actual cut?		
Inspected by: Signature: Date: / /		
I hereby certify the notes on this report are true to statements noted		

Item 11 – Street Surface Restoration

- No. 11 – Final Product - smooth & level
- 2009 Construction Season indicated there to be a step backward in compliance regarding final product.
 - 2008 – 2.20% (96/4,358)
 - 2009 – 3.11% (113/3,639)
- **Unacceptable! Needs drastic improvement. CIU will take extra care in 2010 to ensure compliance for this Construction Season.**

CITY of BOSTON - PUBLIC WORKS DEPT HIGHWAY DIVISION UTILITY STREET OPENING REPAIR INSPECTORS REPORT	
Size of Cut on Permit:	
Roadway or Sidewalk?	
PERMIT #:	Permittee: Patch / Trench or Patch / Trench
Address: Contractor:	
Street:	Foreman: Phone: Travel Time Included
Neighborhood:	Time From: To: Total Hours:
Date: Day of the week, Month, A, Year	Weather/Temp:
Notes	
Violation	
1. Current Permit Present?	n/a YES NO <input type="checkbox"/>
2. Abiding to Permit Restrictions?	n/a YES NO <input type="checkbox"/>
3. Safe Work Zone?	n/a YES NO <input type="checkbox"/>
4. Suitable Re used Gravel Material?	n/a YES NO <input type="checkbox"/>
5. Suitable New Gravel Material?	n/a YES NO <input type="checkbox"/>
6. Compacted in 8" Maximum Lifts?	n/a YES NO <input type="checkbox"/>
7. Controlled Density Fill (CDF)?	n/a YES NO <input type="checkbox"/>
8. Opening Secured?	n/a YES NO <input type="checkbox"/>
9. Edges Straight and Vertical?	n/a YES NO <input type="checkbox"/>
10. Two 1-1/2" Lifts of Hot Mix Asphalt?	n/a YES NO <input type="checkbox"/>
11. Roadway Satisfactorily Complete?	n/a YES NO <input type="checkbox"/>
12. Temp Sidewalk Complete?	n/a YES NO <input type="checkbox"/>
13. Permanent Sidewalk Complete?	n/a YES NO <input type="checkbox"/>
14. Loop Detectors / Crosswalks?	n/a YES NO <input type="checkbox"/>
15. Public Safety Issue?	YES NO <input type="checkbox"/>
Violation Delivered? YES NO	Photo? YES NO SHUTDOWN <input type="checkbox"/>
Utility Rep. Contacted? YES NO	Phone Number: Date: / /
Comments: Date of actual cut?	
Inspected by: Signature: Date: / /	
I hereby certify the notes on this report are true to statements noted.	

See the Difference?




Item 11 – Foreman Check List

- Before the final paving has taken place, the Foreman must have performed the following:
 - The pavement cut has been squared off with vertical sidewalls in neat, straight lines.
 - The pavement sidewalls are clear of debris and have had a tack coat applied.
 - The crew has a supply of both HMA Binder and Top.
 - Proper compaction equipment is available, and used (roller, plate compactor, etc).
- The end product must be smooth and level to the grade of the pre-existing roadway.

Items 12 – Temporary Sidewalk

- Temporary Sidewalk repair to be made immediately
 - MA AAB/ADA compliant
 - Sidewalk cross slope must not exceed 2% (Strive for 1.5%)
 - Ramp cross slope must not exceed 8.3% (Strive for 7.5%)
 - Maintain a compliant temporary passageway of a minimum of 4' around construction area (See BTM Traffic Management Plan)
 - If unable to maintain minimum 4' passageway, the Permittee must provide (2) two *MUTCD R9-10* "Sidewalk Closed – Use Other Side" signs on either side of the site at the nearest intersecting pedestrian ramps.
 - 3" HMA installed w/ 2 Lifts

 **CITY of BOSTON - PUBLIC WORKS DEPT
HIGHWAY DIVISION
UTILITY STREET OPENING REPAIR
INSPECTORS REPORT**

Size of Cut on Permit: _____

Roadway or Sidewalk? _____

PERMIT #: _____ Permittee: _____ Patch / Trench or Patch / Trench Depth? _____

Address: _____ Contractor: _____

Street: _____ Foreman: _____ Phone: _____

Neighborhood: _____ Time From: _____ To: _____ Travel Time Included Total Hours: _____

Date: _____ Weather/Temp: _____

Day of the week: _____ Month: _____ A. Year _____

	n/a	YES	NO	Notes	Violation
1. Current Permit Present?					<input type="checkbox"/>
Is permit current? Call to log? Proper Signage?					<input type="checkbox"/>
2. Abiding to Permit Restrictions?					<input type="checkbox"/>
Two-way traffic? Police Detail? Work Hours? Stopping?					<input type="checkbox"/>
3. Safe Work Zone?					<input type="checkbox"/>
Shoring? Guardrail off zone? Ex. Cones? Barrels? Tape? Etc...					<input type="checkbox"/>
4. Suitable Re-use of Gravel Material?					<input type="checkbox"/>
Was the material tested prior to use?					<input type="checkbox"/>
5. Suitable New Gravel Material?					<input type="checkbox"/>
Tested material? Gradation test on file?					<input type="checkbox"/>
6. Compacted in 8" Maximum Lifts?					<input type="checkbox"/>
# of lifts, lift thickness, type of equipment used, # of passes?					<input type="checkbox"/>
7. Controlled Density Fill (CDF)?					<input type="checkbox"/>
Proper use of CDF?					<input type="checkbox"/>
8. Opening Secured?					<input type="checkbox"/>
Steel Plates Replaced or Barred? Cold patch (if any); NO gravel					<input type="checkbox"/>
9. Edges Straight and Vertical?					<input type="checkbox"/>
Out Sloped? Use Tack Coat? ON, YAT END OF JOB.					<input type="checkbox"/>
10. Two 1-1/2" Lifts of Hot Mix Asphalt?					<input type="checkbox"/>
3" total thickness, parallel to road surface, MUST WITHNESS					<input type="checkbox"/>
11. Roadway Satisfactorily Complete?					<input type="checkbox"/>
Ongoing Acceptable, Not Acceptable, Is it amount and level?					<input type="checkbox"/>
12. Temp Sidewalk Complete?					<input type="checkbox"/>
Ongoing Acceptable, Not Acceptable, Two 1 1/2" lifts of HMA?					<input type="checkbox"/>
13. Permanent Sidewalk Complete?					<input type="checkbox"/>
Ongoing Acceptable, Not Acceptable, Smooth, Tied, and Level?					<input type="checkbox"/>
14. Loop Detectors / Crosswalks?					<input type="checkbox"/>
What is the condition? Damaged? Intersection?					<input type="checkbox"/>
15. Public Safety Issue?					<input type="checkbox"/>
Definitive hazard? Describe.					<input type="checkbox"/>
Violation Delivered? YES NO					<input type="checkbox"/>
Utility Rep. Contacted? YES NO					<input type="checkbox"/>
Photo? YES NO					<input type="checkbox"/>
SHUTDOWN					<input type="checkbox"/>

Comments: See of actual cut? _____

Inspected by: _____ Signature: _____ Date: _____

I hereby certify the notes on this report are true to statements noted

Not Acceptable!



Acceptable.



Items 13 – Permanent Sidewalk

- Permanent repair to be made within 60 days of temporary repair
 - MA AAB/ADA compliant (see Item 12)
 - If any portion of an existing pedestrian ramp is disturbed by construction, Permittee shall be required to reconstruct the ramp to current ADA/AAB regulations.
 - Permittee not responsible for AAB reciprocal provision.
 - Must notify City before PCC work takes place
 - Abide by City material/installation specs.
- Utilities must maintain database of sidewalk restoration locations.

CITY of BOSTON - PUBLIC WORKS DEPT HIGHWAY DIVISION UTILITY STREET OPENING REPAIR INSPECTORS REPORT		Size of Cut on Permit	
		Roadway or Sidewalk?	
PERMIT #:	Permittee:	Patch / Trench or Patch / Trench	Depth?
Address:		Contractor:	
Street:	Foreman:	Phone:	Travel Time Included
Neighborhood:	Time From:	To:	Total Hours:
Date:	Weather/Temp:		
Day of the week:	Month:	Year:	
1. Current Permit Present?	n/a YES NO	Notes	Violation
Is permit current? Call to log? Proper Signage?			<input type="checkbox"/>
2. Abiding to Permit Restrictions?	n/a YES NO		<input type="checkbox"/>
Two-way traffic? Police Detail? Work Hours? Stockpiling?			
3. Safe Work Zone?	n/a YES NO		<input type="checkbox"/>
Shoring? Guardrails off zone? Ex. Cones? Barrels? Tape? Etc...			
4. Suitable Re-use of Gravel Material?	n/a YES NO		<input type="checkbox"/>
Was the material loaded prior to use?			
5. Suitable New Gravel Material?	n/a YES NO		<input type="checkbox"/>
Tested material? Gradation test on file?			
6. Compacted in 8" Maximum Lifts?	n/a YES NO		<input type="checkbox"/>
# of lifts, lift thickness, type of equipment used, # of passes?			
7. Controlled Density Fill (CDF)?	n/a YES NO		<input type="checkbox"/>
Proper use of CDF?			
8. Opening Secured?	n/a YES NO		<input type="checkbox"/>
Steel Plates (Recessed or Banded), Cold patch (4000), HD gravel			
9. Edges Straight and Vertical?	n/a YES NO		<input type="checkbox"/>
Out Required? Use Tac-Cut? ON, YAT END OF JOB.			
10. Two 1-1/2" Lifts of Hot Mix Asphalt?	n/a YES NO		<input type="checkbox"/>
3" total thickness, parallel to road surface, MUST WITHNESS			
11. Roadway Satisfactorily Complete?	n/a YES NO		<input type="checkbox"/>
Ongoing, Acceptable, Not Acceptable, Is it smooth and level?			
12. Temp Sidewalk Complete?	n/a YES NO		<input type="checkbox"/>
Ongoing, Acceptable, Not Acceptable, Two 4-6" lifts of HMA?			
13. Permanent Sidewalk Complete?	n/a YES NO		<input type="checkbox"/>
Ongoing, Acceptable, Not Acceptable, Smooth, Tied, and Level?			
14. Loop Detectors / Crosswalks?	n/a YES NO		<input type="checkbox"/>
What is the condition? Damaged? Intersection?			
15. Public Safety Issue?	YES NO		<input type="checkbox"/>
Definitive hazard? Describe.			
Violation Delivered? YES NO		Photo? YES NO	SHUTDOWN <input type="checkbox"/>
Utility Rep. Contacted? YES NO		Name: _____ PHONE Number: _____	
Comments: Size of actual cut? _____			

Inspected by: _____ Signature: _____ Date: ____/____/____			
(I hereby certify the notes on this report are true to statements noted)			

Item 14 – Loop Detectors / Crosswalks


- Loop detectors, pavement markings, signage etc.
- Partial damage to crosswalks results in complete restoration.
- **Public's Safety possibly compromised**
- Must be replaced no later than 72 hours after completion of work.
- Permittees must internally track locations needing lane markings and loop detector replacing

CITY of BOSTON - PUBLIC WORKS DEPT HIGHWAY DIVISION UTILITY STREET OPENING REPAIR INSPECTORS REPORT		Size of Cut on Permit
PERMIT #:	Permittee:	Roadway or Sidewalk?
Address:	Contractor:	Patch / Trench or Patch / Trench
Street:	Foreman:	Depth?
Neighborhood:	Time From:	Phone:
Date:	To:	Travel Time Included
Day of the week, Month, A, Year	Weather/Temp:	Total Hours:
1. Current Permit Present?	n/a YES NO	Violation
Is permit current? Call to log? Proper Signage?	n/a YES NO	<input type="checkbox"/>
2. Abiding to Permit Restrictions?	n/a YES NO	<input type="checkbox"/>
Two-way traffic? Police Detail? Work Hours? Stockpiling?	n/a YES NO	<input type="checkbox"/>
3. Safe Work Zone?	n/a YES NO	<input type="checkbox"/>
Shoring? Guardrail off zone? Ex. Cones? Barrels? Tape? Etc...	n/a YES NO	<input type="checkbox"/>
4. Suitable Re-use of Gravel Material?	n/a YES NO	<input type="checkbox"/>
Was the material loaded prior to use?	n/a YES NO	<input type="checkbox"/>
5. Suitable New Gravel Material?	n/a YES NO	<input type="checkbox"/>
Tested material? Gradation test on file?	n/a YES NO	<input type="checkbox"/>
6. Compacted in 8" Maximum Lifts?	n/a YES NO	<input type="checkbox"/>
# of lifts, lift thickness, type of equipment used, # of passes?	n/a YES NO	<input type="checkbox"/>
7. Controlled Density Fill (CDF)?	n/a YES NO	<input type="checkbox"/>
Proper use of CDF?	n/a YES NO	<input type="checkbox"/>
8. Opening Secured?	n/a YES NO	<input type="checkbox"/>
Steel Plates Replaced or Barred? Cold patch (4000); NO gravel	n/a YES NO	<input type="checkbox"/>
9. Edges Straight and Vertical?	n/a YES NO	<input type="checkbox"/>
Out Squared? Use Tack Coat? ON YAT END OF JOB.	n/a YES NO	<input type="checkbox"/>
10. Two 1-1/2" Lifts of Hot Mix Asphalt?	n/a YES NO	<input type="checkbox"/>
3" total thickness, parallel to road surface, MUST WITHNESS	n/a YES NO	<input type="checkbox"/>
11. Roadway Satisfactorily Complete?	n/a YES NO	<input type="checkbox"/>
Ongoing, Acceptable, Not Acceptable, Is it smooth and level?	n/a YES NO	<input type="checkbox"/>
12. Temp Sidewalk Complete?	n/a YES NO	<input type="checkbox"/>
Ongoing, Acceptable, Not Acceptable, Two 1 1/2" lifts of RMA?	n/a YES NO	<input type="checkbox"/>
13. Permanent Sidewalk Complete?	n/a YES NO	<input type="checkbox"/>
Ongoing, Acceptable, Not Acceptable, Smooth, Tucked, and Level?	n/a YES NO	<input type="checkbox"/>
14. Loop Detectors / Crosswalks?	n/a YES NO	<input type="checkbox"/>
What is the condition? Damaged? Interference?	YES NO	<input type="checkbox"/>
15. Public Safety Issue?	YES NO	<input type="checkbox"/>
Definitive hazard? Describe.	YES NO	<input type="checkbox"/>
Violation Delivered? YES NO	Photo? YES NO	<input type="checkbox"/>
Utility Rep. Contacted? YES NO	Name: Phone Number: Date:	<input type="checkbox"/>
Comments: See of actual cut?		
Inspected by:	Signature:	Date:
I hereby certify the notes on this report are true to statements noted		

Pavement Markings

- Lane Markings on Arterials must have temporary tape applied before the required 72 hour permanent replacement application.
- The BTD and the CIU have increased its vigilance regarding Disrupted Lane Markings.
- Lane Markings that have been impacted by a Permittee and not repaired within the required period of time may compromise the public's safety.
- **Patches or trenches without the required pavement markings is an incomplete product. This conveys to the public that City and the Permittees are not doing the job “right”.**
- Disrupted Lane Markings are now added to the “Bad Patch” listing.

- Signals an egregious disregard for City Rules and Specifications
- **Will result in meeting/shutdown**
- **Possibility of all active work zones being shut down (Excluding Emergency work)**
- Public Safety violations will be taken into account during Winter Moratorium requests.
- The City of Boston keeps record of ALL violations against the Rules and Specifications.
- Such violations are taken into consideration, especially in regard to public safety, in the Permit Application Process.

 CITY of BOSTON - PUBLIC WORKS DEPT HIGHWAY DIVISION UTILITY STREET OPENING REPAIR INSPECTORS REPORT		Size of Cut on Permit Roadway or Sidewalk? Patch/ Trench or Patch/ Trench Depth?	
PERMIT #:	Permittee:		
Address:	Contractor:		
Street:	Foreman:	Phone:	Travel Time Included
Neighborhood:	Time From:	To:	Total Hours:
Date: <small>Day of the week, Month, & Year</small>	Weather/Temp:		
		Notes	Violation
1. Current Permit Present?		n/a YES NO	<input type="checkbox"/>
<small>Is permit current? Call in Inspector? Proper Signage?</small>			
2. Abiding to Permit Restrictions?		n/a YES NO	<input type="checkbox"/>
<small>Two-way traffic? Police Detail? Work Hours? Stumpcutting?</small>			
3. Safe Work Zone?		n/a YES NO	<input type="checkbox"/>
<small>Shoring? Guarded work zone? Ex. Cones? Barricade? Type? Etc...</small>			
4. Suitable Reused Gravel Material?		n/a YES NO	<input type="checkbox"/>
<small>Was the material tested prior to use?</small>			
5. Suitable New Gravel Material?		n/a YES NO	<input type="checkbox"/>
<small>Tested material? Gradation test on file?</small>			
6. Compacted in a" Maximum Lifts?		n/a YES NO	<input type="checkbox"/>
<small>a of lifts; lift thickness; type of equipment used; a of passes?</small>			
7. Controlled Density Fill (CDF)?		n/a YES NO	<input type="checkbox"/>
<small>Proper use of CDF?</small>			
8. Opening Secured?		n/a YES NO	<input type="checkbox"/>
<small>Blind Plates Resecured or Removed; Cold patch(48hrs); NO gravel</small>			
9. Edges Straight and Vertical?		n/a YES NO	<input type="checkbox"/>
<small>Cut Required? Use Top Coat ONLY AT END OF JOB.</small>			
10. Two 1-1/2" Lifts of Hot Mix Asphalt?		n/a YES NO	<input type="checkbox"/>
<small>3" total thickness, parallel to road surface, MUST WITHNESS</small>			
11. Roadway Satisfactorily Complete?		n/a YES NO	<input type="checkbox"/>
<small>Ongoing, Acceptable, Not Acceptable, In it smooth and level?</small>			90 DAY INSPECTION <input type="checkbox"/>
12. Temp Sidewalk Complete?		n/a YES NO	<input type="checkbox"/>
<small>Ongoing, Acceptable, Not Acceptable, Two 1 1/2" lifts of HMA?</small>			
13. Permanent Sidewalk Complete?		n/a YES NO	<input type="checkbox"/>
<small>Ongoing, Acceptable, Not Acceptable, Brushed, Tooted, and Level?</small>			
14. Loop Detectors / Crosswalks?		n/a YES NO	<input type="checkbox"/>
<small>What is the condition? Damaged? Intersecting?</small>			
15. Public Safety Issue?		YES NO	<input type="checkbox"/>
<small>Definitive hazard? Describe.</small>			
Violation Delivered?	YES	NO	SHUT DOWN <input type="checkbox"/>
Utility Rep. Contacted?	YES	NO	
Comments: <small>(use of actual cut)</small>		name:	Phone Number: title:
Inspected by: Signature: Date: / / <small>I hereby certify the notes on this report are true to statements noted</small>			




Winter Moratorium

- November 15 – April 15 (approx)
- Materials & workmanship negatively effected by cold weather.
- No permits issued without city approval.
- Plated locations hazard to City plowing efforts.



Violation Sheet

- Issued to crew on active work sites. For inactive sites, the CIU maintains a copy of the Violation and a notice is sent.
- Sites section/article from City Rules & Specifications

 VIOLATION CITY OF BOSTON PUBLIC WORKS DEPARTMENT RULES AND SPECIFICATIONS FOR EXCAVATION WITHIN THE CITY OF BOSTON February 17 th , 2006 Edition		
<input type="checkbox"/> 1. Current Permit Present		
o Section 4.09, Article A 2	Working without a permit	Page 29
o Section 4.09, Article A 2	Working with an expired permit	Page 29
o Section 4.09, Article A 2	Current permit not on site	Page 29
o Section 1.01, Article L	No Call-in	Page 6
<input type="checkbox"/> 2. Abiding to Permit Restrictions		
o Section 3.10, Article M	No Ground ID sign(s)	Page 16
o Section 3.07, Article C	Not maintaining 2-way traffic	Page 14
o Section 3.07, Article C	No Police Detail	Page 14
o Section 3.07, Article C	Unauthorized stockpiling	Page 14
o Section 3.07, Article C	Working outside LTD time restrictions	Page 14
<input type="checkbox"/> 3. Safe Work Zone		
o Section 3.10, Article G	Unsafe work zone	Page 16
o Section 3.10, Article I	Work zone not clean and/or swept	Page 16
o Section 4.02, Article C	No shoring or inadequate shoring where required	Page 19
<input type="checkbox"/> 4. Suitable Reused Gravel Material		
o Section 4.04, Article J	Use of untested excavated material	Page 22
<input type="checkbox"/> 5. Suitable New Gravel Material		
o Section 4.08, Article A	Not MHD M1.03.1 approved process gravel for sub-base	Page 27
<input type="checkbox"/> 6. Compacted in 8" Maximum Lifts		
o Section 4.04, Article I	Not compacting in eight (8") lifts	Page 22
o Section 4.04, Article I	Failure to achieve 95% laboratory maximum dry density	Page 22
o Section 4.04, Article K	No control test strip for equipment achieving lifts greater than 8"	Page 22
<input type="checkbox"/> 7. Controlled Density Fill (CDF)		
o Section 4.05, Article A	CDF usage is unapproved	Page 23
<input type="checkbox"/> 8. Opening Secured		
o Section 4.03, Article A	Steel plate(s) unsecured; (movement/bending/vibration/loud banging etc.)	Page 20
o Section 4.03, Article B	Steel plate(s) not completely covering open excavation with minimum 18" overlap	Page 20
o Section 4.03, Article D	Steel plate(s) with no company name and/or phone number	Page 20
o Section 4.03, Article E 1	Steel plate(s) not recessed where required	Page 20
o Section 4.03, Article E 2	Steel plate(s) not bermed properly	Page 20
o Section 4.03, Article E 5	No explanation in writing when steel plates cannot be recessed	Page 20
o Section 4.06	Roadway opening left in gravel	Page 23
o Section 4.06	Cold patch in street opening not replaced with HMA within 48 hours	Page 23
o Section 5.05	Sidewalk opening left in gravel	Page 40
o Section 5.05	Cold patch in sidewalk opening not replaced with HMA within 48 hours	Page 40

UTILITY NAME _____

LOCATION _____ PERMIT # _____

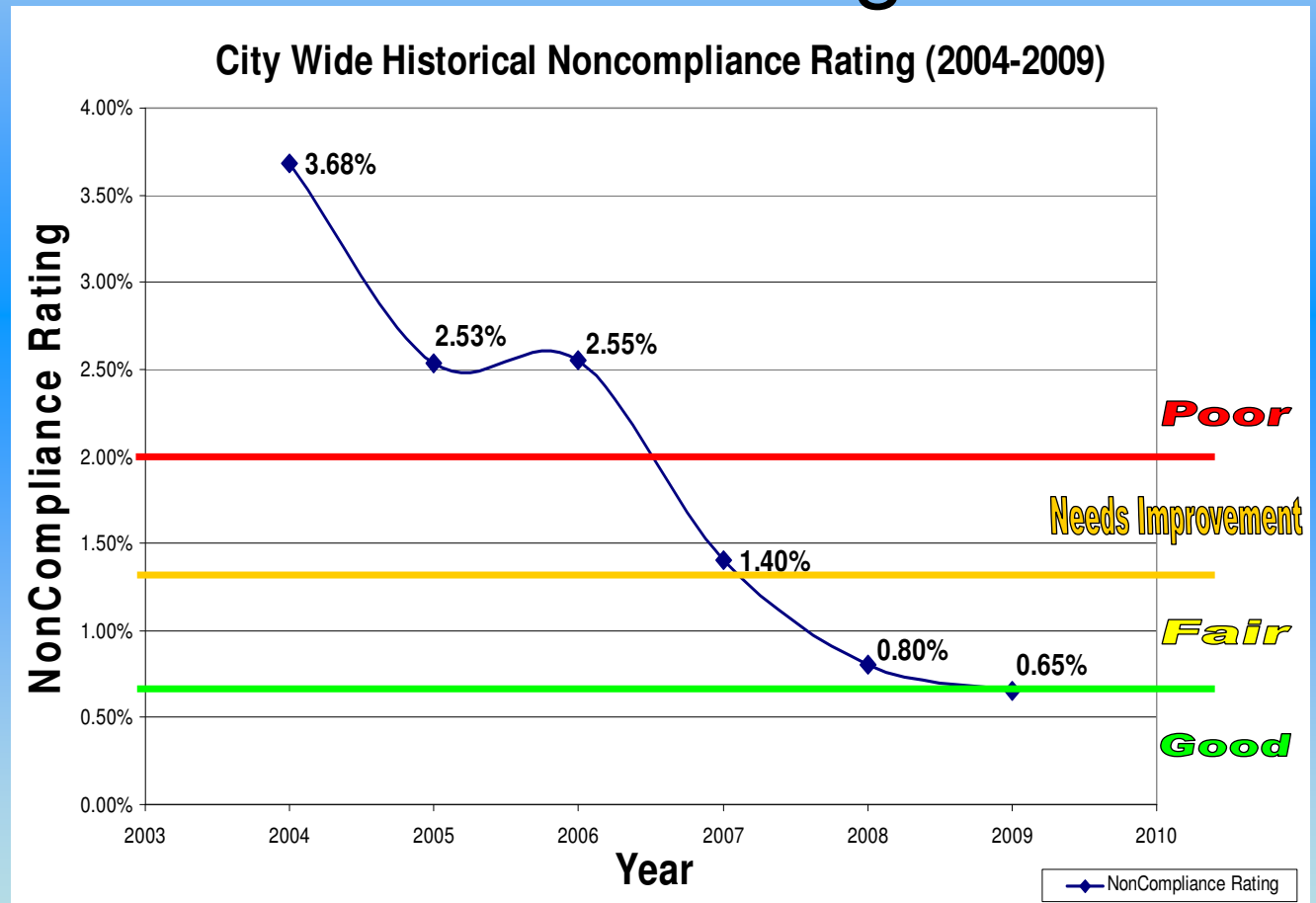
VIOLATION SECT. _____ VIOLATION ART. _____ SIGNATURE _____ DATE _____

City of Boston Public Works
Violation Page 1 of 2

Historical Data

- You have shown a steady improvement over the past few years.
- Education is Key

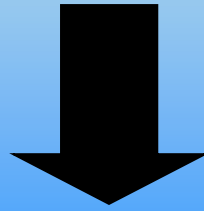
2004-2009 Rating Scale



New Standard

- Through hard work and the effort you have shown the City, you have raised the standards to a new level.
- **A new NonCompliance scale will be in affect this Construction Season.**
- The Public Works Department greatly appreciates how diligently you have all worked, and is confident that you will continue on this trend of excellence in the coming season.

Noncompliance Rating



$$\left(\frac{\text{SUM OF VIOLATIONS}}{\text{SUM OF INSPECTION ITEMS}} \right)$$

$0.00\% \leq \text{Good} < 0.50\%$

$0.50\% \leq \text{Fair} < 1.00\%$

$1.00\% \leq \text{Needs Improvement} < 1.50\%$

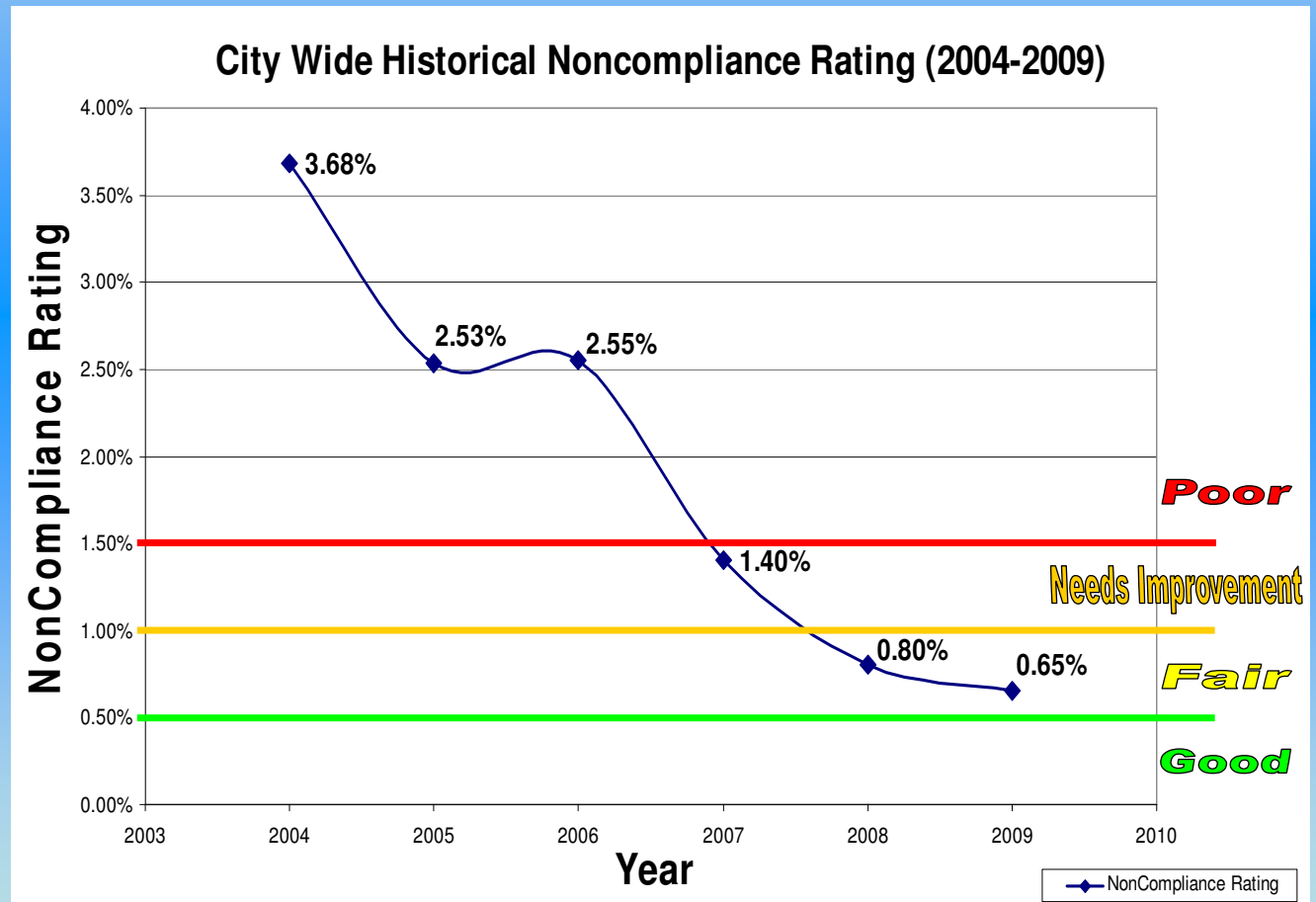
$\geq 1.50\% \text{ Poor}$

**Scale developed from historical data
as collected by CIU inspections**

NonCompliance Adjustment

2010 Rating Scale

- Estimated 0.47% overall Non-Compliance if “Roadway Satisfactorily Complete” was in “Good” rating, 2009.



Cooperative Effort

In 2007 the BPWD began weekly transmissions of rating summaries (Report Cards) to major utilities

- Valuable tool for City & utilities.
- Provides comparison to citywide average.
- We welcome feedback.

City of Boston leading the way...

Rating Summary Sheet

Bad Patch Locations

[illegible]

Enforcement

- **Zero Tolerance on individual work zones established in 2006 by Mayor Menino on Critical violation(s)**
 - Immediate jobsite shutdown/meeting at city hall
- The City has instituted a “**three strike**” policy regarding overall construction practices within a calendar year.
 - Overall non-compliance rating > 1.50% - managers called for meeting (**First Strike**)
 - No improvement will result in a citywide non-emergency shutdown of permits (**Second Strike**) Meeting scheduled.
 - Continued lack of improvement shall result in another shutdown (**Third Strike**)
 - After third strike, highest representatives of company shall meet with Commissioner Massaro and Mayor’s office to discuss overall construction practices.
 - Elevated individual items (e.g. Plates) will fall under the “**Three Strike**” policy.
 - The Permittee shall be held accountable for any actions performed by its Personnel. If the personnel of a Permittee is cited for three shutdown meetings for the same inspection Item (e.g. unsafe work zone), the Permittee shall fall under the “**Second Strike**” policy.

Mayor Thomas Menino takes Public Safety Seriously!!

Enforcement Cont...

“Badpatch” – procedure must be followed

- Identified by CIU as “unacceptable” under Items 11, 12, & 13
- Utility Contractor Notified by EMAIL or PHONE
- Utility has 48 hrs to confirm or contest
 - Contested patches on hold until field meeting
 - Confirmed have until end of following week to repair
 - No communication results as confirmed
- **Failure to address bad patches result in suspension of permits**
- **Public Safety locations require immediate response**
- Report Card - Tool used for self evaluation

2006 Year End Performance

Contractor/Utility Noncompliance Rating

1/1/2006 to 12/31/2006

Inspection Item	City Wide	State/Munl	Private Contractors	Utilities	Keyspan	NSTAR E	NSTAR G	Comcast	Trigen	Verizon
1. Current Permit Present? <i>Is permit current? Callin logged? Proper Signage?</i>	4.07%	3.61%	4.33%	4.00%	5.64%	2.35%	1.10%	0.38%	3.42%	1.36%
2. Abiding to Permit Restrictions? <i>Two-way traffic? Police Detail? Work Hours? Stockpiling?</i>	0.85%	2.77%	1.10%	0.56%	0.81%	0.30%	0.00%	0.75%	0.00%	0.00%
3. Safe work Zone? <i>Shoring? Guarded workzone? Ex. cones, barrels, tape etc.</i>	0.18%	0.43%	0.25%	0.14%	0.14%	0.15%	0.00%	0.00%	0.68%	0.00%
4. Suitable Reused Gravel Material? <i>Was this material tested prior to use?</i>	0.16%	1.18%	0.20%	0.07%	0.13%	0.00%	0.00%	0.00%	0.00%	0.00%
5. Suitable New Gravel Material? <i>Tested material? Gradation test on file?</i>	0.12%	1.35%	0.20%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6. Compacted in 8" Maximum Lifts? <i># of lifts; lift thickness; type of equipment used; # of passes</i>	4.44%	25.66%	4.25%	3.06%	2.96%	1.97%	11.90%	2.50%	11.11%	1.49%
7. Controlled Density Fill (CDF)? <i>Proper Use of CDF?</i>	1.36%	20.00%	0.00%	1.06%	5.26%	0.00%		0.00%	0.00%	0.00%
8. Opening Secured? <i>Steel Plates Replaced or Banned; Cold Patch (48 hrs); NO Gravel</i>	5.58%	15.21%	5.11%	4.54%	5.56%	2.85%	2.27%	0.74%	2.48%	1.14%
9. Edges Straight and Vertical? <i>Cur Squared? Use Top Coat? ONLY AT END OF JOB.</i>	2.00%	3.45%	1.93%	1.89%	1.57%	3.85%	0.00%	0.66%	0.00%	0.44%
10. Two 1-1/2" Lifts of Hot Mix Asphalt? <i>3" total thickness, parallel to road surface, MUST WITNESS</i>	1.44%	6.25%	0.99%	1.26%	1.81%	0.00%	0.00%	3.33%	0.00%	3.85%
11. Roadway Satisfactorily Complete? <i>Ongoing, Acceptable, Not Acceptable, Is it smooth or level?</i>	4.76%	16.31%	4.75%	3.65%	4.10%	4.04%	2.30%	0.65%	5.56%	1.70%
12. Temp Sidewalk Complete? <i>Ongoing, Acceptable, Not Acceptable, Two 1-1/2" lifts of HMA?</i>	4.16%	25.49%	1.60%	3.26%	3.86%	4.42%	0.00%	0.00%	0.00%	0.00%
13. Permanent Sidewalk Complete? <i>Ongoing, Acceptable, Not Acceptable, Brushed, Tooled, Javed?</i>	6.64%	16.42%	6.91%	4.01%	4.85%	3.37%	16.67%	0.00%	0.00%	2.38%
14. Loop Detectors/Crosswalks? <i>What is the condition? Damaged? Intersection?</i>	0.66%	3.33%	1.41%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
15. Public Safety Issue? <i>Definitive hazard? Describe?</i>										



Boston Public Works

construction inspection unit

Overall Rating =

City Wide	State/Munl	Contractor	Utilities	Keyspan	NSTAR E	NSTAR G	Comcast	Trigen	Verizon
2.56%	7.39%	2.50%	2.13%	2.66%	1.68%	1.58%	0.53%	1.65%	0.71%

2007 Year End Performance

Contractor/Utility Noncompliance Rating

1/1/2007 to 12/31/2007

Inspection Item	City Wide	State/MunL	Private Contractors	Utilities	Keyspan	NSTAR E	NSTAR G	Comcast	Trigen	Verizon
1. Current Permit Present? <small>Is permit current? Callin logged? Proper Signage?</small>	1.44%	1.55%	1.52%	1.41%	1.87%	0.75%	1.07%	0.39%	3.91%	0.32%
2. Abiding to Permit Restrictions? <small>Two-way traffic? Police Detail? Work Hours? Stockpiling?</small>	0.50%	2.27%	0.67%	0.35%	0.41%	0.23%	1.03%	0.00%	0.00%	0.32%
3. Safe work Zone? <small>Shoring? Guarded workzone? Ex. cones, barrels, tape etc.</small>	0.18%	1.14%	0.14%	0.14%	0.15%	0.10%	0.00%	0.00%	0.75%	0.16%
4. Suitable Reused Gravel Material? <small>Was the material tested prior to use?</small>	6.06%	30.00%	0.00%	2.22%	0.00%	5.00%	0.00%			0.00%
5. Suitable New Gravel Material? <small>Tested material? Gradation test on file?</small>	0.19%	0.00%	0.00%	0.26%	0.07%	0.67%	0.00%	0.00%	0.00%	0.57%
6. Compacted in 8" Maximum Lifts? <small># of lifts; lift thickness; type of equipment used; # of passes</small>	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
7. Controlled Density Fill (CDF)? <small>Proper Use of CDF?</small>	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
8. Opening Secured? <small>Steel Plates Replaced or Banned; Cold Patch (48 hrs); NO Gravel</small>	3.26%	11.34%	2.17%	3.04%	3.74%	1.96%	5.26%	0.00%	4.78%	0.30%
9. Edges Straight and Vertical? <small>Out Squared? Use Tac-Coat? ONLY AT END OF JOB.</small>	0.68%	1.19%	0.30%	0.72%	0.75%	0.73%	0.00%	0.00%	4.76%	0.00%
10. Two 1-1/2" Lifts of Hot Mix Asphalt? <small>3" total thickness, parallel to road surface, MUST WITNESS</small>	0.06%	0.00%	0.00%	0.06%	0.15%	0.00%	0.00%	0.00%	0.00%	0.00%
11. Roadway Satisfactorily Complete? <small>Ongoing, Acceptable, Not Acceptable, Is it smooth or level?</small>	3.34%	7.96%	1.83%	3.24%	3.64%	2.66%	4.39%	1.25%	4.69%	0.75%
12. Temp Sidewalk Complete? <small>Ongoing, Acceptable, Not Acceptable, Two 1-1/2" lifts of HMA?</small>	2.42%	6.33%	3.02%	1.81%	1.81%	2.15%	2.78%	0.00%	0.00%	0.00%
13. Permanent Sidewalk Complete? <small>Ongoing, Acceptable, Not Acceptable, Brushed, Tooled Javel?</small>	8.23%	15.53%	4.14%	9.21%	13.04%	3.88%	16.13%	0.00%	0.00%	7.84%
14. Loop Detectors/Crosswalks? <small>What is the condition? Damaged? Intersection?</small>	35.29%	0.00%	0.00%	40.00%	46.15%	38.46%		0.00%	33.33%	0.00%
15. Public Safety Issue? <small>Definitive hazard? Describe?</small>										



Boston Public Works

construction inspection unit

Overall Rating =

City Wide	State/MunL	Contractor	Utilities	Keyspan	NSTAR E	NSTAR G	Comcast	Trigen	Verizon
RATING	RATING	RATING	RATING	RATING	RATING	RATING	RATING	RATING	RATING
1.40%	1.16%	1.02%	1.32%	1.60%	0.91%	1.65%	0.20%	3.03%	0.39%

2008 Year End Performance

Contractor/Utility Noncompliance Rating

1/1/2008 to 12/31/2008

Inspection Item	City Wide	State/Munl.	Private Contractors	Utilities	National Grid	NSTAR E	NSTAR G	Comcast	Trigen	Verizon
1. Current Permit Present? <small>Is permit current? Call-In logged? Proper Signage?</small>	0.84%	0.64%	1.12%	0.77%	0.88%	0.58%	0.91%	0.00%	0.00%	0.83%
2. Abiding to Permit Restrictions? <small>Two-way traffic? Police Detail? Work Hours? Staked/piling?</small>	0.36%	1.16%	0.56%	0.14%	0.14%	0.19%	0.00%	0.00%	0.00%	0.00%
3. Safe work Zone? <small>Shoring? Guarded workzone? Ex. cones, barrels, tape etc.</small>	0.26%	0.89%	0.40%	0.09%	0.07%	0.19%	0.00%	0.00%	0.00%	0.00%
4. Suitable Reused Gravel Material? <small>Was the material tested prior to use?</small>	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%		0.00%
5. Suitable New Gravel Material? <small>Tested material? Gradation test on file?</small>	0.04%	0.00%	0.14%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6. Compacted in 8" Maximum Lifts? <small># of lifts; lift thickness; type of equipment used; # of passes</small>	0.08%	1.79%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
7. Controlled Density Fill (CDF)? <small>Proper Use of CDF?</small>	0.00%		0.00%	0.00%	0.00%	0.00%			0.00%	0.00%
8. Opening Secured? <small>Steel Plates Recessed or Bermed Cold Patch (48 hrs); NO Gravel</small>	1.81%	3.89%	1.63%	1.48%	1.82%	0.82%	3.28%	0.00%	0.37%	0.78%
9. Edges Straight and Vertical? <small>Cut Squared? Use Top-Coat? ONLY AT END OF JOB.</small>	0.43%	2.43%	0.00%	0.38%	0.37%	0.69%	0.00%	0.00%	0.00%	0.00%
10. Two 1-1/2" Lifts of Hot Mix Asphalt? <small>3" total thickness, parallel to road surface, MUST WITNESS</small>	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
11. Roadway Satisfactorily Complete? <small>Ongoing, Acceptable, Not Acceptable, Is it smooth or level?</small>	2.20%	9.60%	1.68%	1.65%	1.93%	0.86%	0.00%	0.00%	2.17%	0.00%
12. Temp Sidewalk Complete? <small>Ongoing, Acceptable, Not Acceptable, Two 1-1/2" lifts of HMA?</small>	1.12%	5.08%	1.46%	0.29%	0.44%	0.00%	0.00%	0.00%	0.00%	0.00%
13. Permanent Sidewalk Complete? <small>Ongoing, Acceptable, Not Acceptable, Brushed, Tooled, Javed?</small>	0.93%	1.46%	0.65%	0.73%	1.23%	0.00%	0.00%	0.00%	0.00%	0.00%
14. Loop Detectors/Crosswalks? <small>What is the condition? Damaged? Intersection?</small>	0.00%		0.00%	0.00%	0.00%	0.00%				
15. Public Safety Issue? <small>Definitive hazard? Describe?</small>										



Boston Public Works
construction inspection unit

Overall Rating =	City Wide RATING	State/Munl. RATING	Contractor RATING	Utilities RATING	Keyspan RATING	NSTAR E RATING	NSTAR G RATING	Comcast RATING	Trigen RATING	Verizon RATING
	0.80%	2.12%	0.77%	0.61%	0.73%	0.43%	0.47%	0.00%	0.21%	0.24%

2009 Year End Performance

Contractor/Utility Noncompliance Rating

1/1/2009 to 12/31/2009

Inspection Item	City Wide	State/Muni.	Private Contractors	Utilities	National Grid	NSTAR E	NSTAR G	Comcast	Trigen	Verizon
1. Current Permit Present? <small>Is permit current? Call-in logged? Proper Signage?</small>	0.40%	0.22%	0.42%	0.57%	0.77%	0.22%	0.00%	0.00%	0.00%	0.40%
2. Abiding to Permit Restrictions? <small>Two-way traffic? Police Detail? Work Hours? Stockpiling?</small>	0.22%	0.45%	0.15%	0.17%	0.25%	0.00%	0.00%	0.00%	0.00%	0.00%
3. Safe work Zone? <small>Shoring? Guarded work zone? Ex. cones, barrels, tape etc.</small>	0.08%	0.28%	0.15%	0.02%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%
4. Suitable Reused Gravel Material? <small>Was the material tested prior to use?</small>	0.00%	0.00%	0.00%	0.00%	0.00%			0.00%		
5. Suitable New Gravel Material? <small>Tested material? Gradation test on file?</small>	0.05%	0.00%	0.31%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6. Compacted in 8" Maximum Lifts? <small># of lifts; lift thickness; type of equipment used; # of passes</small>	0.49%	4.58%	0.30%	0.14%	0.24%	0.00%	0.00%	0.00%	0.00%	0.00%
7. Controlled Density Fill (CDF)? <small>Proper Use of CDF?</small>	0.00%		0.00%	0.00%	0.00%	0.00%			0.00%	
8. Opening Secured? <small>Steel Plates Replaced or Barred; Cold Patch (48 hrs); NO Gravel</small>	1.24%	1.08%	1.29%	1.28%	1.43%	1.58%	0.00%	0.00%	0.00%	1.06%
9. Edges Straight and Vertical? <small>Cut Squared? Use Tack Coat? ONLY AT END OF JOB.</small>	0.03%	0.00%	0.00%	0.04%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%
10. Two 1-1/2" Lifts of Hot Mix Asphalt? <small>3" total thickness, parallel to road surface, MUST WITNESS</small>	0.43%	2.82%	0.00%	0.20%	0.37%	0.00%	0.00%	0.00%	0.00%	0.00%
11. Roadway Satisfactorily Complete? <small>Ongoing, Acceptable, Not Acceptable, Is it smooth or level?</small>	3.10%	8.91%	1.60%	2.65%	2.66%	3.38%	3.23%	0.94%	3.03%	0.96%
12. Temp Sidewalk Complete? <small>Ongoing, Acceptable, Not Acceptable, Two 1-1/2" lifts of HMA?</small>	0.21%	0.00%	0.93%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
13. Permanent Sidewalk Complete? <small>Ongoing, Acceptable, Not Acceptable, Brushed, Tooled, Level?</small>	3.86%	7.32%	0.88%	5.71%	9.30%	5.00%	0.00%	0.00%		0.00%
14. Loop Detectors/Crosswalks? <small>What is the condition? Damaged? Intersection?</small>	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%		
15. Public Safety Issue? <small>Definitive hazard? Describe?</small>										



Boston Public Works

Construction Inspection Unit

Overall Rating =

City Wide	State/Muni.	Contractors	Utilities	Keyspan	NSTAR E	NSTAR G	Comcast	Trigen	Verizon
RATING	RATING	RATING	RATING	RATING	RATING	RATING	RATING	RATING	RATING
0.65%	0.94%	0.50%	0.61%	0.73%	0.47%	0.28%	0.11%	0.08%	0.26%

Need for improvement of Roadway Satisfactorily Complete!

NonCompliance Fluctuation	2006	2007	2008	2009
Overall	2.56%	1.40%	0.80%	0.65%
Opening Secured	5.58%	3.26%	1.81%	1.24%
Roadway Satisfactorily Complete	4.76%	3.34%	2.20%	3.10%

Over 50% of all “Roadway Satisfactorily Complete” Violations were issued on locations where Emergency Work took place without the Supervision of the CIU.

90 Day Reinspections

- PWD considers the 90-Day Re-inspection as the final testament on how well the Permittee adhered to the Rules and Specifications regarding Construction Practices.

90-Day Reinspection - Acceptable Rate

	2007	2008	2009	Total
90-Day Reinspections	1578	2974	1884	6436
Violations	32	44	56	132
Percentage of Acceptable Patches	97.97%	98.52%	97.03%	97.95%

- The City is assessing your product and how it affects the residents long after you have completed the work.

Conclusion

- Utility network key component in Boston's future
- Upgrade, repair, and maintenance must be performed in a professional manner
- Teamwork is critical in delivering shared goal of a superior infrastructure to Boston's Citizens

SEE YOU OUT IN THE STREETS